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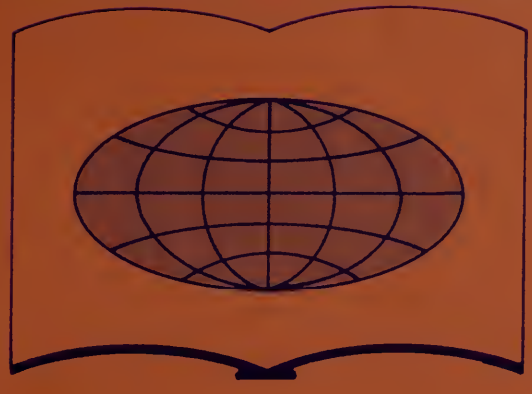

Volume 5 Number 8
April 11, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
April 11, 1969
Number 8

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
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ACKNOWLEDGMENT

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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TABLE OF CONTENTS

BIBLIOGRAPHY (Citations)

	Page
10 ENTOMOLOGY	1
Systematics	1
Physiology and Biochemistry	4
Genetics	12
Medical Entomology	13
20 CROP PROTECTION	13
Diseases	14
Arthropods	17
Nematodes	18
Weeds	18
Other Pests	19
30 LIVESTOCK PROTECTION	19
Diseases	19
Arthropods	22
Parasites	22
40 COMMODITY PROTECTION	22
Storage Diseases	22
Arthropods	22
Rodents and Other Pests	*
Microbial Contamination	23
50 ENVIRONMENTAL CONTAMINATION	23
55 RESIDUES	23
60 TOXICOLOGY	24
65 PLANT PHYSIOLOGY & BIOCHEMISTRY	24
70 CHEMISTRY	25
80 ENGINEERING	26
90 INDUSTRY	26
Economics	26
Education	27
Regulations	27
SUBJECT INDEX	29
BIOGRAPHICAL INDEX	91
AUTHOR INDEX	99
ORGANIZATIONAL INDEX	103

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Eumenidae, Insect geography, Insect identification.

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K Ermisch
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G Field
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The two new species are compared with and distinguished from S. earlei, S. guerrerense, S. mexicanum , S. paynei, S. pulverulentum, S. smarti, S. yepocapense.

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K J Hedqvist
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G H Heinrich
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C Johnson
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H de Lesse
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E Lindqvist
Entomol Tidskr 89(3-4):192-196
31 Dec 1968 421 EN891
Insect taxonomy, Symphyta.

4407-69
DISTRIBUTION AND DISTRIBUTIONAL CENTERS OF NORTH ATLANTIC INSECTS.
C H Lindroth
Entomol Soc Amer Bull 14(2):91-95 MAP
Jun 1968 423.9 EN8
Agonum muelleri, Anarta lapponica, Insect dissemination, Insect ecology, Insects, Micralymma marinum, Plusia parilis.

4408-69
SYSTEMATICS OF THE CRYPTOCEPHALINAE (COLEOPTERA, CHRYSOMELIDAE) FROM SOVIET CENTRAL ASIA AND KAZAKHSTAN.
I K Lopatin
Entomol Rev 46(1 JAN-MAR):126-131
Mar 1967 421 R322AE
Chrysomelidae, Insect taxonomy, Zoogeography.

4409-69
ON THE GENUS DIALINEURA RONDANI, 1856 (DIPTERA, THEREVIDAE).
L Lyneborg
Entomol Tidskr 89(3-4):147-172 REF
31 Dec 1968 421 EN891
Catalogs, Insect geography, Insect taxonomy, Therevidae.

4410-69
CONTRIBUTION TO THE SYSTEMATICS AND ZOOGEOGRAPHY OF HALTICINAE (COL.) IN THE CANARY ISLANDS. (GE)
J Madar J Madar
Acta Ent Bohemoslov 65(2):138-151 MAP REF
1968 420 C33
Halticinae, Insect anatomy, Insect ecology, Insect identification, Reproductive organs, Zoogeography. English and Czech summaries. eight other species of the heyrovskya are described.

4411-69
A REVIEW OF DARKLING BEETLES OF THE TRIBE LEPTODINI (COLEOPTERA, TENEBRIONIDAE).
G S Medvedev
Entomol Rev 46(2,APR-JUN):211-214 MAP
Jun 1967 421 R322AE
Catalogs, Insect taxonomy, Tenebrionidae, Zoogeography.

4412-69
ICHNEUMONIDAE (HYMENOPTERA) COLLECTED IN PADDY FIELDS OF THE ORIENT, WITH DESCRIPTIONS OF NEW SPECIES. PART 2. SUBFAMILIES PORIZONTINAE, METOPIINAE AND DIPLAZONTINAE.
S Momoi K Kusigemati A Nakanishi
Mushi 41(16):201-214
28 Mar 1968 421 M97
Catalogs, Ichneumonidae, Insect taxonomy, Rice, Surveys, Zoogeography.

4413-69
LEPIDOPTERA COLLECTED IN A LIGHT TRAP DURING THE WINTER 1962/63 IN ASSIUT, EGYPT.
J Moucha J Zahradnik
Acta Ent Bohemoslov 65(2):152-158 REF
1968 420 C33
Arctiidae, Insect collecting equipment, Insect identification, Insect taxonomy, Lepidoptera, Light traps, Lycaenidae, Noctuidae, Pyralidae, Sphingidae. Czech summary. many species of the above genera are listed.

4414-69
NEW SYNONYMY IN THE SOUTH AFRICAN GENUS SYNAPTOTHRIPS TRYBOM (THYSANOPTERA) WITH A KEY TO THE SPECIES.
L A Mound
Entomol Soc Southern Afr J 31(1):87-95 REF
Mar 1968 420 EN86
Catalogs, Insect taxonomy, Thripidae.

4415-69
NEW AND LITTLE KNOWN ARMOURED SCALES (HOMOPTERAI DIASPIDIDAE) FROM SOUTH AFRICA. 4.
J Munting
Entomol Soc Southern Afr J 31(2):417-433
Sep 1968 420 EN86
Catalogs, Diaspididae, Insect evolution, Insect taxonomy.

4416-69
NEW PALEARCTIC SPECIES OF THE GENUS CYPHON PAYK. IV. STUDIES ON THE HELODIDAE FAMILY. IX. (GE)
T Nyholm
Entomol Tidskr 89(3-4):250-254
31 Dec 1968 421 EN891
Cyphon, Helodidae, Insect taxonomy, Zoogeography.

4417-69
RECORDS AND DESCRIPTIONS OF PALEARCTIC AND SOUTH ASIATIC LASPEYRESIINI (LEPIDOPTERA: TORTRICIDAE).
N S Obraztsov
N Y Entomol Soc J 76(4):224-239 REF
Dec 1968 420 N48J
Catalogs, Insect taxonomy, Tortricidae.

4418-69
A REVISION OF THE SUBGENUS HIRTODROSOPHILA OF THE OLD WORLD, WITH DESCRIPTIONS OF SOME NEW SPECIES AND SUBSPECIES (DIPTERA, DROSOPHILIDAE, DROSOPHILA).
T Okada
Mushi 41(1):1-36 REF
10 Aug 1967 421 M97
Catalogs, Drosophila, Insect taxonomy, Surveys, Zoogeography.

4419-69
A NEW SCHISTOGLOSSA SPECIE FROM SWEDEN (COL. STAPHYLINIDAE, ALEOCHARINAE). (GE)
T Palm
Entomol Tidskr 89(3-4):248-249
31 Dec 1968 421 EN891
Insect taxonomy, Staphylinidae.

4420-69
APHIDS FROM THE SUBTRIBE SCHIZOLACHNINA (APHIDOIDEA, LACHNINAE) IN MIDDLE EUROPE.
A Pintera
Acta Ent Bohemoslov 65(2):100-111 REF
1968 420 C33
Aphididae, Insect anatomy, Insect identification, Insect taxonomy, Zoogeography. Czech summary.

4421-69
CONCERNING THE TAXONOMIC CLARIFICATION OF NARRAGA TESSULARIA ILIA WHLI AND SOME REMARKS ABOUT THIS GENUS. (LEPIDOPTERA, GEOMETRIDAE). (GE)
D Povolny J Moucha
Acta Ent Bohemoslov 59(2):152-155
20 Apr 1962 420 C33
Geometridae, Insect taxonomy, Zoogeography. Czech summary.

4422-69
A NEW SUBGENUS AND NEW SPECIES OF FRANCISCOLOA CONCI (MALLOPHAGA: MENOPONIDAE).
R D Price
Pacific Insects 9(3):511-517
20 Aug 1967 421 P11
Insect taxonomy, Menoponidae.

4423-69
STENUS AND MEGALOPINUS MOTSCHULSKY GENERA AND REMARKS ON THE SUBGENUS TESNUS REY, WITH A TABLE OF THE PALEARCTIC REPRESENTATIVES (COLEOPTERA, STAPHYLINIDAE). (54. CONTRIBUTION TO THE KNOWLEDGE OF THE STENUS GENUS). (GE)
V Puthz
Notulae Entomol 48(4):197-219 REF
1968 421 N84
Catalogs, Insect geography, Insect taxonomy, Staphylinidae.

4424-69
THE FIRST DISCOVERY OF FREE-LIVING LARVAE OF THE EAR TICK, OTOBIUS MEGNINI (DUGES), IN BRITISH COLUMBIA.
G B Rich J D Gregson
Entomol Soc Brit Columbia Proc 65:22-23
01 Aug 1968 420 B77
Dermacentor albipictus, Dermacentor andersoni, Insect adaptation, Insect identification, Larvae, Otobius megnini, Parasitic insects, Zoogeography.

4425-69
WOOD-AND-BARK-FEEDING COLEOPTERA OF FELLED SPRUCE IN INTERIOR BRITISH COLUMBIA.
D A Ross
Entomol Soc Brit Columbia Proc 65:10-12
01 Aug 1968 420 B77
Coleoptera, Dendroctonus obesus, Emergence, Forest insects, Insect rearing, Monochamus oregonensis, Picea engelmanni, Picea glauca, Serropalpus substriatus, Wood-destroying insects. The author lists wood- and bark-feeding coleoptera.

4426-69
REDEFINED CONCEPT OF THE GENUS SYNAPTOTHRIPS WITH REDESCRIPTIONS OF TWO SPECIES (THYSANOPTERA: THRIPIDAE).
K Sakimura
Entomol Soc Southern Afr J 31(1):75-81
Mar 1968 420 EN86
Insect taxonomy, Thripidae.

4427-69
CHELACHELES MICHALSKII N. SP. (ACARI, CHEYLETIDAE). (GE)
K Samsinak
Acta Ent Bohemoslov 59(2):183-185
20 Apr 1962 420 C33
Acari, Cheyletidae, Insect identification, Insect taxonomy. Czech summary. several other species of Cheyletidae are mentioned.

4428-69
ALTICINAE OF NEW GUINEA, III. SCHENKLINGIA AND ALLIES (COLEOPTERA: CHRYSOMELIDAE).
G A Samuelson
Pacific Insects 11(1):33-47
1969 421 P11
Catalogs, Chrysomelidae, Insect geography, Insect taxonomy.

4429-69
ICONOGRAPHY OF THE EGGS OF THE LEPIDOPTERA FAUNA OF BELGIUM. (FR)
L G Sarlet
Lambillionea 67(1/2):7-9
25 Feb 1968 420 N15
Entomology, Illustrations, Insect eggs, Insect identification, Insect taxonomy, Lepidoptera. Description of eggs from French, German, English, and Italian sources.

4430-69
A NEW SPECIES OF ECNOMUS MCLACHLAN (TRICHOPTERA: PSYCHOMYIDAE) FROM SOUTH AFRICA.
K M F Scott
Entomol Soc Southern Afr J 31(2):411-415
Sep 1968 420 EN86
Insect taxonomy, Trichoptera.

4431-69
ON NOCTURNAL DARKLING BEETLES OF THE GENUS MELANESTHES LAC. (SCOLEOPTERA, TENEBRIONIDAE) FROM CENTRAL KAZAKHSTAN.
N G Skopin
Entomol Rev 46(1,JAN-MAR):123-125
Mar 1967 421 R322AE
Catalogs, Insect taxonomy, Tenebrionidae, Zoogeography.

4432-69
ABUNDANCE AND MICRODISTRIBUTION OF LARVAL CHIRONOMIDAE IN STABILIZATION LAGOONS.
B T Sturgess R L Goulding
Entomol Soc Amer Ann 62(1):97-102 REF
15 Jan 1969 420 EN82
Chironomidae, Insect ecology, Insect physiology, Insect populations, Larvae, Sewage treatment, Soil moisture, Statistical analysis, Zoogeography.

4433-69
ANNOTATED LIST OF FOREST INSECTS OF BRITISH COLUMBIA. XIV. ENNOMINAE (GEOMETRIDAE).
B A Sugden
Entomol Soc Brit Columbia Proc 65:24-33
01 Aug 1968 420 B77
Forest insects, Geometridae, Insect identification, Insect physiology, Insect taxonomy, Larvae. 57 species of forest geometrids are discribed.

4434-69
A NEW WESMAELIUS FROM CENTRAL ASIA (NEUROPTERA, HEMEROBIIDAE).
B Tjeder
Entomol Tidskr 89(3-4):137-140
31 Dec 1968 421 EN891
Hemerobiidae, Insect ecology, Insect geography, Insect taxonomy, Wesmaelius.

4435-69
REVISION OF THE NOMINATE SUBGENUS SCELIPHRON LATREILLE (HYMENOPTERA, SPHECIDAE) (STUDIES ON THE SCELIPHRONINI, PART I).
J van der Vecht F M A van Breugel
Tijdschr Entomol 111(6):185-255 MAP REF
27 Dec 1968 421 T21
Catalogs, Insect geography, Insect taxonomy, Sphecidae.

4436-69
ON ORTHOTYLUS FIEB. AND PACHYLOPS FIEB. (HETEROPTERA, MIRIDAE). (GE)
E Wagner
Notulae Entomol 48(4):187-196
1968 421 N84
Insect geography, Insect taxonomy, Miridae.

4437-69
THE GENUS HETEROTOMA LEPELETIER AND SERVILLE, 1825 (SYNONYM ACRODERRHIS BERGROTH, 1914) (HETEROPTERA, MIRIDAE). (GE)
E Wagner
Notulae Entomol 48(4):179-186
1968 421 N84
Insect geography, Insect taxonomy, Miridae.

4438-69
TAXONOMY OF THE GENUS PALUDA DE LONG 1937 (HOMOPTERA EUSCELIDAE). (GE)
W Wagner
Zool Beitr 13(2-3):479-499 REF
1967 410 Z753
Catalogs, Cicadellidae, Insect geography, Insect taxonomy.

4439-69
ENUMERATION OF THE MICROLEPIDOPTERA ENCOUNTERED IN THE REGION OF WARSAGE. (FR)
J M Warlet
Lambillionea 66(3/4):18-23
20 Apr 1967 420 N15
Insect taxonomy, Lepidoptera.

4440-69
IDENTIFICATION OF THE BRACONID PARASITES OF RICE BORERS (HYMENOPTERA: BRACONIDAE).
C Watanabe
Mushi 41(14):185-188
28 Mar 1968 421 M97
Braconidae, Catalogs, Chilo suppressalis, Insect taxonomy, Parasitic insects, Rice, Zoogeography.

4441-69
FIRST OCCURRENCE OF BALSAM WOOLLY APHID IN THE INTERIOR OF BRITISH COLUMBIA.
R O Wood
Entomol Soc Brit Columbia Proc 65:13-14
01 Aug 1968 420 B77
Abies alba, Abies concolor, Abies lasiocarpa, Adelges piceae, Carbaryl, Chermes piceae, Endosulfan, Forest insects, Insect control, Spraying, Surveys, Tetradifon, Zoogeography.

4442-69
THE IDENTITY OF THE BRITISH MONDSYNAMMA SCOTT 1864 (HEM., MIRIDAE).
G E Woodroffe
Entomologist (london) 100(1252):217-222
Sep 1967 421 EN8
Catalogs, Insect taxonomy, Miridae.

4443-69
STUDIES ON THE JAPANESE GALL MIDGES II, TWO NEW AND A KNOWN SPECIES OF THE GENUS CAMPTOMYIA FROM KYUSHU (DIPTERA: CECIDOMYIIDAE).
J Yukawa
Mushi 41(11):143-148 REF
30 Jan 1968 421 M97
Catalogs, Cecidomyiidae, Insect taxonomy, Zoogeography.

4444-69
NEW SPECIES OF HYPERA (COLEOPTERA, CURCULIONIDAE) FROM THE CRIMEAN MOUNTAINS.
V A Zaslavskiy
Entomol Rev 46(1,JAN-MAR):138-141
Mar 1967 421 R322AE
Catalogs, Hypera, Insect taxonomy, Zoogeography.

4445-69
NEW SPECIES OF THE GENUS TRACHINA MG. (DIPTERA, TACHNIDAE), PARASITES OF INJURIOUS LEPIDOPTERA IN THE USSR.
L S Zimin
Entomol Rev 46(2,APR-JUN):274-280
Jun 1967 421 R322AE
Catalogs, Insect taxonomy, Parasitic insects, Tachinidae, Zoogeography.

4446-69
NEW RECORDS OF SOUTH AFRICAN THYSANOPTERA WITH DESCRIPTION OF A NEW PHLAEOTHRIPID GENUS.
R Zur Strassen
Entomol Soc Southern Afr J 31(2):365-372 REF
Sep 1968 420 EN86
Insect taxonomy, Phlaeothripidae, Thripidae, Thysanoptera.

PHYSIOLOGY AND BIOCHEMISTRY

4447-69
AMINO ACID REQUIREMENTS OF THE COTTON STAINER, DYSDERCUS FASCIATUS SIGNORET (PYRRHOCORIDAE, HEMIPTERA).
M A Alikhan
Pakistan J Sci 19(516,SEP-NOV):227-232 REF
1967 475 P172
Amino acids, Dysdercus fasciatus, Insect biochemistry, Insect diets, Insect nutrition.

4448-69
COENOSIA LINEATIPES ZETT. (DIPT., MUSCIDAE) PREYING ON TYPHLOCYBA CRUENTA H. S. (HEM., CICADELLIDAE).
A A Allen
Entomol Mon Mag (SER.4)99(287-8):212
Nov 1963 421 EN86
Cicadellidae, Coenosia lineatipes, Environment, Insect behavior, Muscidae, Predaceous insects, Typhlocyba cruenta.

4449-69
PREDATORY BEHAVIOUR OF A DOLICHOPODID AND AN EPHYDRID (DIPT.).
A A Allen
Entomol Mon Mag (SER 4)99(277-9,JAN-MAR):8
1963 421 EN86
Dolichopodidae, Ephydridae, Feeding, Insect behavior, Morphology, Predaceous insects, Research.

4450-69
ARE WOODPECKERS THE ANSWER TO PINE BARK BEETLE ATTACKS .
Anonymous
Forest Farmer 28(1):16,26
Oct 1968 99.8 F7692
Biological control (insects), Insect control, Insect outbreaks, Population, Predatory birds, Scolytidae, Woodpeckers.

4451-69
NUTRITION OF THE SILKWORM, BOMBYX MORI. XVI. QUANTITATIVE REQUIREMENTS FOR ESSENTIAL AMINO ACIDS. (JA)
N Arai T Ito
Bull Sericult Exp Sta 21(2):373-384 REF
Apr 1967 425.9 J273B
Amino acids, Bombyx mori, Dosage, Growth factors, Insect diets, Insect nutrition, Insect physiology, Larvae, Proline, Synthetic diets. English summary.

4452-69
ULTRASTRUCTURAL PECULIARITIES OF THE MYOFIBRILS IN THE FLIGHT MUSCLES OF LEPIDOPTERA. (FR)
J Auber
Acad Sci Compt Rend Ser D Sci Nat 264(4, 1ST SEMESTER):621-624
23 Jan 1967 505 P21

Electron microscopy, Insect flight, Insect morphology, Lepidoptera, Myofibrils, Ultrastructure.

4453-69

REMARKS ON THE STRUCTURE OF INSECT FLIGHT MUSCLE FIBRILS AT THE STRIATION LEVEL. (FR)

J Auber

Acad Sci Compt Rend Ser D Sci Nat 264(25, 1ST SEMESTER):2916-2918 REF

19 Jun 1967 505 P21

Electron microscopy, Insect flight, Insect histology, Muscles.

4454-69

A COMPARATIVE STUDY ON THE EFFECTS OF AERIAL VERSUS GROUND SPRAYING OF POISONED BAITS AGAINST THE MEDITERRANEAN FRUIT FLY ON THE NATURAL ENEMIES OF SCALE INSECTS IN CITRUS GROVES.

Z Avidov D Rosen U Gerson

Entomophaga 8(3):205-212

1963 421 EN835

Aerial spraying, Baits, Beneficial insects, Ceratitis capitata, Ceroplastes floridensis, Citrus, Coccoidea, Insecticides, Malathion, Poisoning, Protein hydrolysates, Spraying. English summary.

4455-69

EVIDENCE FOR IMPORTANT INTERCELLULAR SPACES IN THE HYPODERMIS AND PARACRYSTALLINE FORMATIONS IN THE EXUVIAL LIQUID OF THE LARVAE OF GALLERIA MELLONELLA L. (LEPIDOPTERA PYRALIDAE) DURING THE FORMATION OF THE CUTICLE. (FR)

R Barbier

Acad Sci Compt Rend Ser D Sci Nat 264(19, 1ST SEMESTER):2337-2340

08 May 1967 505 P21

Cuticle, Electron microscopy, Galleria mellonella, Insect cytology, Insect histology, Larvae.

4456-69

ASPECTS OF VIRUS MULTIPLICATION AND AVERAGE REDUPLICATION TIME FOR A GRANULOSIS VIRUS OF ZEIRAPHERA DINIANA (GUENEE).

G Benz

Entomophaga Mem Hors Ser (2):417-421

1964 421 EN835M

Dosage, Granuloses, Insect diseases, Larvae, Mortality, Virology, Zeiraphera diniana. French summary.

4457-69

MITOTIC ACTIVITY OF THE FIRST EMBRYONIC STAGES IN THE POTATO BEETLE LEPTINOTARSA DECEMLINEATA SAY (COLEOPTERA, CHRYSOMELIDAE). (FR)

J Bergerard C Maisonhaute

Acad Sci Compt Rend Ser D Sci Nat 264(17, 1ST SEMESTER):2134-2137

24 Apr 1967 505 P21

Insect cytology, Insect embryos, Leptinotarsa decemlineata, Mitosis.

4458-69

THE USE OF VIRUSES IN BIOLOGICAL CONTROL.

F T Bird

Entomophaga Mem Hors Ser (2):465-473 REF

1964 421 EN835M

Biological control (insects), Insect diseases, Insect pests, Neodiprion sertifer, Polyhedroses. French summary.

4459-69

THE EGG-LAYING CYCLE IN THE MACHILOIDEA (INSECTA THYSANURA). (FR)

J Bitsch

Acad Sci Compt Rend Ser D Sci Nat 264(2, 1ST SEMESTER):383-385

09 Jan 1967 505 P21

Insect biology, Life cycle, Machilidae, Oviposition.

4460-69

BENZALDEHYDE: DEFENSIVE SECRETION OF A HARVESTER ANT.

M S Blum F Padovani A Curley R E Hawk

Compar Biochem Physiol 29(1):461-465 REF

Apr 1969 444.8 C73

Benzaldehyde, Glands (insects), Insect biochemistry, Insect protective devices, Veromessor.

4461-69

THE ACTION OF DARK PHASES OF VARYING DURATIONS IN THE CIRCADIAN, ULTRA- AND INFRA-CIRCADIAN RHYTHMS ON THE PRODUCTION OF WINGED GYNOPHORES OF DYSAPHIS PLANTAGINEA PASS. (HOMOPTERA, APHIDIDAE). (FR)

L Bonnemaison

Acad Sci Compt Rend Ser D Sci Nat 264(23, 1ST SEMESTER):2661-2663

05 Jun 1967 505 P21

Darkness, Diurnal rhythm, Dysaphis plantaginea, Insect physiology.

4462-69

THE IDENTITY OF SITOPHILUS ORYZAE.

H B Boudreaux

Entomol Soc Amer Ann 62(1):169-172

15 Jan 1969 420 EN82

Curculionidae, Insect anatomy, Insect identification, Photography, Sitophilus oryzae, Sitophilus zeamais.

4463-69

ON PARTHENOGENIC REPRODUCTION IN ARAMMICHNUS CRIBRICOLLIS GYLL (INSECTA COLEOPTERA CURCULIONIDAE). (FR)

A Bournier C Buchelos

Acad Sci Compt Rend Ser D Sci Nat 264(3, 1ST SEMESTER):470-473

16 Jan 1967 505 P21

Curculionidae, Insect reproduction, Parthenogenesis.

4464-69

CONCERNING THE EXTRAOCULAR LIGHT SENSITIVITY OF THE DICTYOPTERA: EVIDENCE OF PHOTORECEPTORS ASSOCIATED WITH THE TEGUMENTARY NERVES. (FR)

P Brousse-Gaury

Acad Sci Compt Rend Ser D Sci Nat 264(21, 1ST SEMESTER):2481-2482 REF

22 May 1967 505 P21

Cuticle, Insect histology, Insect physiology, Nerves, Orthoptera, Phototropism.

4465-69

CIRCADIAN CLOCK ACTION SPECTRUM IN A PHOTOPERIODIC MOTH.

V G Bruce D H Minis

Science 163(3867):583-585 REF

07 Feb 1969 470 SCI2

Biological clocks, Diapause, Diurnal rhythm, Hatching, Insect eggs, Insect physiology, Pectinophora gossypiella, Photoperiodism.

4466-69

THE INTRODUCTION, RELEASE, AND RECOVERY OF PARASITES OF THE ALFALFA WEEVIL IN EASTERN UNITED STATES.

M H Brunson L W Coles

USDA Prod Res Rep (101):11P

Oct 1968 A281.9 AG8

Biological control (insects), Experimental insects, Hypera postica, Insect pests, Parasitic insects, Zoogeography.

4467-69

BIOLOGY, ECOLOGY AND DISTRIBUTION OF AMARA PSEUDOCOMMUNIS BURAK. (COLEOPTERA, CARABIDAE).

B Burakowski

Pol Akad Nauk Inst Zool Ann Zool 24(9):41P MAP REF

20 Jun 1967 4.0.9 W26

Carabidae, Insect anatomy, Insect biology, Insect ecology, Insect eggs, Insect morphology, Insect physiology, Larvae, Zoogeography. Polish and Russian summaries.

4468-69

TERATOLOGICAL EFFECTS ON THE NYMPHS AND ADULTS OF INSECTS, THE LARVAE OF WHICH HAVE INGESTED SUBLETHAL DOSES OF THE THERMOSTABLE TOXIN OF BACILLUS THURINGIENSIS BERLINER. (FR

A Burgerjon G Biache

Acad Sci Compt Rend Ser D Sci Nat 264(20, 1ST SEMESTER):2423-2425

17 May 1967 505 P21

Bacillus thuringiensis, Insect abnormalities, Insect physiology, Metamorphosis, Pieris brassicae, Toxins.

4469-69

HISTOCHEMICAL DATA ON THE NEUROSECRETORY ALLATA TERMINATIONS IN ANTHERAEA PERNYI GUER. (LEPIDOPTERA, ATTACIDAE) AND IN RHODNIUS PROLIXUS STAL. (HEMIPTERA, REDUVIIDAE). (FR)

M Busselet

Acad Sci Compt Rend Ser D Sci Nat 265(10, 2ND SEMESTER):754-757 REF

04 Sep 1967 505 P21

Antheraea pernyi, Corpora allata, Histochemistry, Insect histology, Insect morphology, Rhodnius prolixus.

4470-69

COMPARATIVE EFFECTS OF ALLATECTOMY ON THE ACTIVITY OF THE MALE ACCESSORY GLANDS AND ON THE SEXUAL BEHAVIOR OF TWO ACRIDIDS: SCHISTOCERCA GREGARIA AND LOCUSTA MIGRATORIA (SUB-SPECIES MIGRATORIOIDES AND RAZALINSK). (FR

A M Cantacuzene

Acad Sci Compt Rend Ser D Sci Nat 265(3, 2ND SEMESTER):224-227 REF

17 Jul 1967 505 P21

Corpora allata, Locusta migratoria, Mating, Reproductive organs, Schistocerca gregaria.

4471-69

THE INFLUENCE OF WEIGHT OF NEWLY-HATCHED LARVAE ON THE DETERMINATION OF THE PHASE CHARACTERISTICS OF THE MIGRATORY LOCUST, LOCUSTA MIGRATORIA MIGRATORIOIDES (R. AND F.), GREGARIOUS PHASE. (FR)

P Cassier

Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1501-1503

13 Mar 1967 505 P21

Insect physiology, Larvae, Locusta migratoria migratorioides, Metamorphosis.

4472-69

THE CUMULATIVE EFFECTS OF LONG PHOTOPERIODS AND THE DETERMINATION OF THE PHASE CHARACTERISTICS OF THE MIGRATORY GRASSHOPPER, LOCUSTA MIGRATORIA MIGRATORIOIDES (R. AND F.), GREGARIOUS PHASE. (FR)

P Cassier

Acad Sci Compt Rend Ser D Sci Nat 264(16, 1ST SEMESTER):2045-2048 REF

17 Apr 1967 505 P21

Insect morphology, Insect physiology, Light, Locusta migratoria, Photoperiodism.

4473-69

THE INFLUENCE OF THE CORPORA CARDIACA ON THE DURATION OF THE FOURTH AND FIFTH INSTARS OF LOCUSTA MIGRATORIA L.. (FR

M Cazal

Acad Sci Compt Rend Ser D Sci Nat 264(5, 1ST SEMESTER):738-740

30 Jan 1967 505 P21

Corpora cardiaca, Development, Insect physiology, Larvae, Locusta migratoria, Metamorphosis, Neuroendocrines.

4474-69
CARDIAC ACTIVITY OF LOCUSTA MIGRATORIA IN VITRO AND THE INFLUENCE OF THE CORPORA CARDIACA. PERFECTION OF AN EXPERIMENTAL METHOD AND PRELIMINARY RESULTS. (FR)
M Cazal
Acad Sci Compt Rend Ser D Sci Nat 264(6, 1ST SEMESTER):842-845 REF
06 Feb 1967 505 P21
Corpora cardiaca, Dorsal vessel, Experimental design, Hormones, Insect physiology, Locusta migratoria.

4475-69
RESEARCH ON THE ODORIFEROUS CONSTITUENTS OF THE TERPENIC FUMES OF VARIOUS SUBSTANCES AND THEIR ACTION ON IPS SEXDENTATUS BOERNER (COLEOPTERA, SCOLYTIDAE). (FR)
C Chararas A Berton
Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1471-1474
13 Mar 1967 505 P21
Biochemistry, Insect behavior, Ips sexdentatus, Terpenes.

4476-69
THE ADAPTABILITY OF BLASTOPHAGUS PINIPERDA L. (COL. SCOLYTIDAE) TO VARIOUS PINUS AND THE PREFERENCES OF THIS INSECT IN REGARD TO THESE FOREST SPECIES. (FR)
C Chararas
Acad Sci Compt Rend Ser D Sci Nat 266(3, 1ST SEMESTER):238-241
15 Jan 1968 505 P21
Blastophagus piniperda, Food habits, Insect adaptation, Insect behavior, Pinus.

4477-69
BIONOMICS OF TUR PLUME MOTH (MARASMARCHA LIOPHANES, MEYRICK) ON PIGEON PEA (CAJANNS CAJAN, MILISP).
M S Chari H K Patel
Andhra Agr J 14(5):158-164
1967 34.2 AN4
Insect behavior, Lepidoptera, Pigeonpeas.

4478-69
COMPOSITION OF THE GUT CONTENTS OF THIRD-INSTAR TSETSE LARVAE (GLOSSINA MORSITANS WESTWOOD).
S H W Cmelik E Bursell E Slack
Compar Biochem Physiol 29(1):447-453 REF
Apr 1969 444.8 C73
Cholesterol, Gastrointestinal system, Glossina morsitans, Glycerides, Insect biochemistry, Larvae, Lipids, Phospholipids, Tyrosine.

4479-69
ELECTROPHYSIOLOGICAL EVIDENCE OF THE TACTILE FUNCTION OF THE SENSILLARY TRICHIA ON THE ANTENNA OF THE SPEOPHYES LUCIDULUS DELAROUZEE (CAVE COLEOPTERA) LARVA. (FR)
G Corbiere
Acad Sci Compt Rend Ser D Sci Nat 265(18, 2ND SEMESTER):1327-1329
30 Oct 1967 505 P21
Antennae, Coleoptera, Electrophysiology, Insect physiology, Larvae, Mechanoreceptors.

4480-69
THE REGULATORY CAPACITY OF THE DORSAL MESOTHORACIC DISC IN CERATITIS CAPITATA WIED (DIPTERA, TRYPETIDAE). (FR)
M V da Costa
Acad Sci Compt Rend Ser D Sci Nat 264(8, 1ST SEMESTER):1058-1061
20 Feb 1967 505 P21
Ceratitis capitata, Development, Hormones, Insect physiology.

4481-69
A CRITERION OF TRANSFORMATION FOR AGE-WEIGHT DATA ON INSECT LARVAL GROWTH.
R F Costantino
Growth 32(1):71-73
Mar 1968 442.8 G91
Aging, Insect ecology, Insect physiology, Larvae, Parameters, Population, Transformations (mathematical), Weights.

4482-69
ISOLATION AND A STUDY OF THE MODE OF ACTION OF A POLYGALACTURONASE IN INSECTS (PYRRHOCORIS APTERUS). (FR)
J E Courtois F Percheron M J Foglietti
Acad Sci Compt Rend Ser D Sci Nat 266(2, 1ST SEMESTER):164-166
08 Jan 1968 505 P21
Chromatography, Insect biochemistry, Insect physiology, Pectinase, Pyrrhocoris apterus.

4483-69
TEST ON THE USE OF FUSARIUM EPISPHAERIA F. COCCOPHILA (DESM.) SNYDER AND HANSEN IN THE CONTROL OF THE CALIFORNIA RED SCALE , AONIDIELLA AURANTII.
I S Crouzel R Fresa
Entomophaga Mem Hors Ser (2):151-158
1964 421 EN835M
Aonidiella aurantii, Biological control (insects), Entomogenous fungi, Fusarium, Insect diseases, Insect pests. French summary.

4484-69
THE PROBLEM OF VIRAL LATENCY IN INSECT TISSUE CULTURES.
M F Day T D C Grace
Entomophaga Mem Hors Ser (2):449-451
1964 421 EN835M
Antheraea eucalypti, Bombyx mori, Hemerocampa leucostigma, Insect diseases, Polyhedroses. French summary.

4485-69
CLASSIFICATION OF THE STRAINS OF BACILLUS THURINGIENSIS. (FR
H De Barjac A Bonnefoi
Acad Sci Compt Rend Ser D Sci Nat 264(4, 1ST SEMESTER):1811-1813
03 Apr 1967 505 P21
Bacillus thuringiensis, Bacteriology, Insect diseases, Taxonomy.

4486-69
THE INFLUENCE OF THE BROOD COMB ON FOOD EXCHANGE BETWEEN HONEYBEE WORKERS (APIS MELLIFERA). (FR)
P Douault
Acad Sci Compt Rend Ser D Sci Nat 264(8, 1ST SEMESTER):1092-1095
20 Feb 1967 505 P21
Apis mellifera, Food habits, Insect behavior, Radioactive tracers.

4487-69
STUDY OF THE PHOTOTROPHISM OF THE NOCTUIDAE (LEPIDOPTERA). RESEARCH ON THE VARIATION OF BEHAVIOR FOLLOWING THE FREQUENCY OF INTERMITTENT MONOCHROMATIC ILLUMINATION. (FR)
C Dufay
Acad Sci Compt Rend Ser D Sci Nat 264(21, 1ST SEMESTER):2501-2504
22 May 1967 505 P21
Color, Insect behavior, Light, Noctuidae, Phototropism.

4488-69
THE INFLUENCE OF THE FUNGUS BEAUVERIA BASSIANA VUILL. ON THE FERTILITY AND THE DIAPAUSE OF LEPTINOTARSA DECEMLINEATA SAY. (FR)
M M El-Tahtaoui
Entomophaga Mem Hors Ser (2):549-553
1964 421 EN835M
Beauveria bassiana, DDT, Entomogenous fungi, Fertility, Insect diseases, Insect physiology, Integrated control (insects), Larvae, Leptinotarsa decemlineata. English summary.

4489-69
INDUSTRIAL TESTS OF THE BIOLOGICAL PREPARATION ENTOBACTERIN-3 IN THE USSR. (FR)
N S Fedorintchik
Entomophaga Mem Hors Ser (2):299-303
1964 421 EN835M
Bacillus cereus, Biological control (insects), Biological products, Fruit, Tables (data), Vegetables. English summary.

4490-69
ATTACK ACTIVITY OF TWO SPECIES OF GNATS IN SOUTHERN CALIFORNIA.
J D Foulk
Entomol Soc Amer Ann 62(1):112-116
15 Jan 1969 420 EN82
Ceratopogonidae, Insect behavior, Insect breeding, Insect collecting equipment, Leptoconops kerteszi.

4491-69
ACTION OF ECDYSONE ON THE LARVAE OF DROSOPHILA MELANOGASTER SUBJECTED TO STARVATION. THE EXISTENCE OF TWO PRE-REQUISITES FOR THE FORMATION OF THE PUPARIUM. (FR
J Fourche
Acad Sci Compt Rend Ser D Sci Nat 264(20, 1ST SEMESTER):2398-2400
17 May 1967 505 P21
Drosophila melanogaster, Ecdysone, Larvae, Metamorphosis, Starvation.

4492-69
A SEMI-SYNTHETIC DIET FOR ERI-SILKWORM RAISING. (JA)
T Fukuda Y Higuchi
Bull Sericult Exp Sta 21(2):401-423 REF
Apr 1967 425.9 J273B
Castorbeans, Growth factors, Insect diets, Insect physiology, Insect rearing, Larvae, Plant extracts, Samia cynthia ricini, Synthetic diets. English summary.

4493-69
THE DEVELOPMENT OF AN ARTIFICIAL DIET NOT CONTAINING LEAF POWDER OF ANY FOOD PLANTS FOR ERI-SILKWORM RAISING.
T Fukuda
J Sericult Sci Jap 36(4):309-314 REF
Aug 1967 425.9 SE6
Feeding, Insect diets, Insect physiology, Insect rearing, Samia cynthia ricini, Synthetic diets.

4494-69
THE CRYPTONEPHRIDISM OF THE LARVAE OF PLANIPENNIA AND THEIR VARIATIONS IN FUNCTION WITH THE ECOLOGY OF THE INSECTA. (FR)
J Gaumont
Acad Sci Compt Rend Ser D Sci Nat 264(23, 1ST SEMESTER):2642-2645
05 Jun 1967 505 P21
Insect ecology, Insect physiology, Kidneys, Planipennia.

4495-69
THE IMMOBILIZATION REFLEX ASSOCIATED WITH TACTILE STIMULATION OF THE PRONOTUM OF NORMAL LARVAE OF BLABERUS CRANIIFER (BURM.) AND ONES HAVING RECEIVED IMPLANTATIONS OF THE CORPORA ALLATA. (FR)
J Y Gautier
Acad Sci Compt Rend Ser D Sci Nat 264(10, 1ST SEMESTER):1319-1322
06 Mar 1967 505 P21
Blaberus craniifer, Corpora allata, Immobilization, Insect behavior, Insect physiology, Larvae, Mechanoreceptors, Tissue transplants.

4496-69
OBSERVATIONS ON THE SECOND GENERATION OF CARPOCAPSA IN THE LOIRE VALLEY. (FR)
R Geoffrion
Phytoma 20(200,JUL-AUG):11-20

1968 464.8 P563
Carpocapsa pomonella, Caterpillars, Climate, Diapause, Insect biology, Insect outbreak forecasting, Insect pests.

4497-69
NEW DATA ON ACCUMULATION OF S35 AND RU106 BY DRAGONFLY NYMPHS (ODONATA).
A B Getsova G A Volkova
Entomol Rev 46(1,JAN-MAR):38
Mar 1967 421 R322AE
Autoradiography, Biochemistry, Nymphs, Odonata, Ruthenium, Sulfur.

4498-69
THE EXISTENCE OF INCLUSIONS WHICH HAVE A LAMELLA ULTRASTRUCTURE IN THE NUCLEUS OF CERTAIN BACTERIOCYTES IN THE ADIPOSE TISSUE OF PERIPLANETA AMERICANA (INSECTA, BLATTIDAE). (FR)
I D Gharagozlou
Acad Sci Compt Rend Ser D Sci Nat 264(8, 1ST SEMESTER):1056-1057
20 Feb 1967 505 P21
Cell nucleus, Fat body, Insect physiology, Periplaneta americana, Ultrastructure.

4499-69
FOOD GATHERING BEHAVIOR OF THE ANT, CAMPONOTUS NOVEBORACENSIS (FITCH) (HYMENOPTERA: FORMICIDAE).
W H Gotwald
N Y Entomol Soc J 76(4):278-296 REF
Dec 1968 420 N48J
Camponotus, Food habits, Insect behavior.

4500-69
THE ACCUMULATION OF FERRITIN IN THE NUCLEI AND CYTOPLASM OF CERTAIN MESENTERON CELLS IN OLD HOMOPTERA CERCOPIDAE. (FR
J Gouranton
Acad Sci Compt Rend Ser D Sci Nat 264(23, 1ST SEMESTER):2657-2660 REF
05 Jun 1967 505 P21
Cercopidae, Gastrointestinal system, Insect biochemistry, Insect cytology, Philaenus spumarius.

4501-69
INACTIVATION OF JUVENILE HORMONE LIKE COMPOUNDS IN INSECTS. (GE
A Grassman A Geyer G Herda P Schmialek
Acta Ent Bohemoslov 65(2):92-99 REF
1968 420 C33
Degradation, Emulsifying agents, Insect physiology, Isoprenoids, Juvenile hormone, Metamorphosis, Tenebrio molitor. English and Czech summaries.

4502-69
SOME BIOMETRICS IN PIERIS AND COLIAS (LEPIDOPTERA: PIERIDAE) IN QUEBEC AND NOVA SCOTIA.
P H H Gray
N Y Entomol Soc J 75(1):12-17
Mar 1967 420 N48J
Biometry, Colias eurytheme, Colias philodice, Pieridae, Pieris rapae, Wings (insects).

4503-69
TWO STRAINS OF BACILLUS THURINGIENSIS BERLINER ISOLATED FROM LARVAE OF DISPARATE BOMBYX LYMANTRIA DISPAR. (FR)
R Grigorova
Entomophaga Mem Hors Ser (2):179-191
1964 421 EN835M
Bacillus thuringiensis, Bacteriology, Biochemistry, Bombyx, Insect diseases, Larvae, Serological tests, Stilpnotia salicis, Toxins. English summary.

4504-69
USE OF CHERRY-LAUREL FOLIAGE FOR PREPARATION OF AN EFFECTIVE INSECT-KILLING JAR.
T F Hall S G Breeland P K Anderson
Entomol Soc Amer Ann 62(1):242-244 REF
15 Jan 1969 420 EN82
Anopheles quadrimaculatus, Biological assay, Biological control (insects), Containers, Experimental insects, Foliage, Hydrocyanic acid, Maceration, Prunus caroliniana, Toxins.

4505-69
EFFECT OF IONIZING RADIATION ON DACUS ZONATUS FRUIT FLY EGGS AND LARVAE IN SITU.
H Haque C R Ahmad
Pakistan J Sci 19(516,SEP-DEC):233-238
1967 475 P172
Cobalt isotopes, Dacus zonatus, Dosage, Guavas, Insect eggs, Insect pests, Ionization, Larvae, Radiation.

4506-69
SOUND PRODUCTION IN THE WHITE-PINE WEEVIL, PISSODES STROBI, AND THE NORTHERN PINE WEEVIL, P. APPROXIMATUS.
D M Harman G A Kranzler
Entomol Soc Amer Ann 62(1):134-136 REF
15 Jan 1969 420 EN82
Forest insects, Insect behavior, Insect pests, Insect physiology, Pissodes approximatus, Pissodes strobi, Stridulation.

4507-69
SPECIFICITY IN INSECTICIDES.
C C Harris
Gardeners Chron 164(2):22
12 Jul 1968 80 G162
Chlorinated hydrocarbons, DDT, Insect control, Insecticide synergists, Insecticides, Malathion, Organophosphates, Organophosphorus compounds, Pheromones, Pyrethrum, Sex attractants, Synergists, Toxicity.

4508-69
CONTROL OF METABOLISM IN THE SILKWORM PUPAL OVARY BY THE DIAPAUSE HORMONE.
K Hasegawa O Yamashita
J Sericult Sci Jap 36(4):297-301 REF
Aug 1967 425.9 SE6
Bombyx mori, Chromatography, Diapause, Glycogen, Hormones, Insect eggs, Insect metabolism, Lipids, Ovaries, Photoperiodism, Pupae, Ribonucleic acid, Synthesis, Temperature. Japanese summary.

4509-69
STUDY OF THE MULTIPLICATION OF SINDBIS ARBOVIRUS IN DROSOPHILA. (FR)
F Herreng
Acad Sci Compt Rend Ser D Sci Nat 4(24, 1ST SEMESTER):2854-2857
12 Jun 1967 505 P21
Drosophila melanogaster, Reproduction, Sindbis virus, Virus diseases (insects), Viruses.

4510-69
FURTHER NOTES ON THE REPRODUCTIVE BIOLOGY OF THE EARWIG FORFICULA AURICULARIA L.. (GE)
K Herter
Zool Beitr 13(2-3)213-244
1967 410 Z753
Forficula auricularia, Insect ecology, Insect geography, Insect reproduction, Temperature.

4511-69
DIETARY CHOLINE REQUIREMENTS, PHOSPHOLIPIDS AND DEVELOPMENT IN PHORMIA REGINA.
E Hodgson W C Dauterman H M Mehendale E Smith M A Q Khan
Compar Biochem Physiol 29(1):343-359 REF
Apr 1969 444.8 C73
Choline, Development, Insect diets, Phormia regina, Phospholipids.

4512-69
ULTRASTRUCTURE OF THE HEMOCYTES OF LOCUSTA MIGRATORIA (ORTHOPTERA). (FR
J A Hoffmann M E Stoekel A Porte P Joly
Acad Sci Compt Rend Ser D Sci Nat 266(5, 1ST SEMESTER):503-505
29 Jan 1968 505 P21
Blood cells, Electron microscopy, Hemolymph, Insect cytology, Locusta migratoria, Ultrastructure.

4513-69
THE INFRASTRUCTURAL MORPHOLOGY OF PILLOTINA CALOTERMITIDIS NOV. GEN., NOV. SP., A SPIROCHAETALES OF THE INTESTINE OF CALOTERMES PRAECOX. (FR)
A Hollande I Gharagozlou
Acad Sci Compt Rend Ser D Sci Nat 265(18, 2ND SEMESTER):1309-1312 REF
30 Oct 1967 505 P21
Electron microscopy, Isoptera, Morphology, Spirochaeta, Taxonomy.

4514-69
ATTRACTANT AND FEEDING RESPONSES OF HICKORY SUCKWORM LARVAE TO CERTAIN EXTRACTS OF PECAN SHUCKS.
G S Howell F G Maxwell
Entomol Soc Amer Ann 62(1):240-242
15 Jan 1969 420 EN82
Acetone, Attractants, Carya illinoensis, Ethyl alcohol, Extracts, Feeding, Hexane, Insect behavior, Insect pests, Insect physiology, Laspeyresia caryana.

4515-69
EXPERIMENTS ON THE MILKY DISEASE OF THE LARVA OF MELOLONTHA MELOLONTHA L. (FR)
B Hurpin
Entomophaga Mem Hors Ser (2):41-45
1964 421 EN835M
Bacillus popilliae, Biological control (insects), Ecology, Insect diseases, Larvae, Melolontha melolontha, Milky disease, Temperature. English summary

4516-69
A PRELIMINARY STUDY ON THE POLYHEDROSIS VIRUS OF JUTE SEMILOOPER, ANOMIS SABULIFERA GUEN.
M Ishaque A K M F Kabir
Pakistan J Sci 19(516,SEP-NOV):205-208
1967 475 P172
Anomis sabulifera, Epidemiology, Insect diseases, Polyhedroses, Symptomatology, Viruses.

4517-69
NUTRITION OF THE SILKWORM, BOMBYX MORI. XVII. EFFECT OF DIETARY LEVELS OF AMINO ACIDS ON GROWTH OF FIFTH-INSTAR LARVAE AND ON COCOON QUALITY. (JA)
T Ito N Arai T Inokuchi
Bull Sericult Exp Sta 21(2):385-400
Apr 1967 425.9 J273B
Amino acids, Bombyx mori, Insect diets, Insect nutrition, Insect physiology, Insect rearing, Larvae, Pupal cases, Synthetic diets. English summary.

4518-69
NUTRITIONAL REQUIREMENTS AND ARTIFICAL DIETS FOR THE SILKWORM, BOMBYX MORI L.
T Ito
J Sericult Sci Jap 36(4):315-319 REF
Aug 1967 425.9 SE6
Amino acids, Biochemistry, Bombyx mori, Carbohydrates, Chromatography, Growth factors, Insect diets, Insect metabolism, Insect nutrition, Insect physiology, Lipids, Minerals, Quantitative analysis, Sterols, Vitamins. Japanese summary.

4519-69
SUSCEPTIBILITY OF IRRADIATED INSECTS TO BACILLUS THURINGIENSIS INFECTION.
R H Jafri
Entomophaga Mem Hors Ser (2):351-354
1964 421 EN835M
Bacillus thuringiensis, Insect diseases, Mortality, Tribolium castaneum, Tribolium confusum, X-rays. French summary.

4520-69
INTERNAL ANATOMY OF THE DEVELOPMENTAL STAGES OF THE TWOSPOTTED SPIDER MITE.
M Jalil
Entomol Soc Amer Ann 62(1):247-249
15 Jan 1969 420 EN82
Insect anatomy, Insect histology, Insect morphology, Metamorphosis, Tetranychus urticae.

4521-69
TERMITE CONTROL IN RUBBER PLANTATIONS.
K Jayarathnam
India Rubber Board Bull 9(4):33-40 REF
1968 78.9 IN22
Chemical control (insects), Dieldrin, Heptachlor, Insecticide application, Insecticides, Odontotermes obesus, Pest control, Plantations, Rubber, Tables (data), Termites. Several other less effective insecticides are mentioned.

4522-69
THE RESULTS OF LARGE DOSE INJECTIONS OF JUVENILE HORMONE IN LOCUSTA MIGRATORIA, GREGARIOUS PHASE. (FR)
P Joly
Acad Sci Compt Rend Ser D Sci Nat 268(12, 1ST SEMESTER):1634-1635
24 Mar 1969 505 P21
Insect physiology, Juvenile hormone, Locusta migratoria.

4523-69
CYTOPLASMIC PARTICLES CARRYING RAPIDLY LABELED RNA IN DEVELOPING INSECT EPIDERMIS.
F C Kafatos
Nat Acad Sci Proc 59(4):1251-1258 REF
Apr 1968 500 N21P
Bombyx mori, Cuticle, Cytology, Insect physiology, Radioactive tracers, Ribonucleic acid.

4524-69
THE INCIDENCE AND BURDEN OF HYMENOLEPIS DIMINUTA CYSTICERLOIDS AS A FUNCTION OF THE AGE OF THE INTERMEDIATE HOST, TRIBOLIUM CONFUSUM.
R J Kelly D M O'Brian F F Katz
N Y Entomol Soc J 75(1):19-23 REF
Mar 1967 420 N48J
Aging, Echinococcosis, Host-parasite relations, Hymenolepis diminuta, Tribolium confusum.

4525-69
RESULTS OF EXPERIMENTS CARRIED OUT IN HUNGARY WITH BACILLUS THURINGIENSIS.
Z Klement
Entomophaga Mem Hors Ser (2):341-343
1964 421 EN835M
Anagasta kuehniella, Bacillus thuringiensis, Biological control (insects), Experimental insects, Insect diseases. French summary.

4526-69
ON THE CONTINUOUS OR PERIODIC PRODUCTION OF BROODS IN THE HALICTINAE (INSECTA, HYMENOPTERA). (FR)
G Knerer C Plateaux-Quenu
Acad Sci Compt Rend Ser D Sci Nat 264(4, 1ST SEMESTER):651-653
23 Jan 1967 505 P21
Halictidae, Insect reproduction.

4527-69
COMPARISON OF THE STRUCTURE AND ARCHITECTURE OF SOME NESTS OF EVYLAEUS (HYM., HALICTIDAE) AT THE CELL REGION. (FR
G Knerer C Plateaux-Quenu
Acad Sci Compt Rend Ser D Sci Nat 265(5, 2ND SEMESTER):455-458
31 Jul 1967 505 P21
Halictidae, Insect nests, Nesting habits.

4528-69
ON THE PRODUCTION OF MALES IN THE SOCIAL HALICTINAE (INSECTA, HYMENOPTERA). (FR)
G Knerer C Plateaux-Quenu
Acad Sci Compt Rend Ser D Sci Nat 264(8, 1ST SEMESTER):1096-1099
20 Feb 1967 505 P21
Halictidae, Insect genetics, Insect reproduction.

4529-69
BROOD CARE IN HALICTINE BEES.
G Knerer
Science 164(3878):429-430
25 Apr 1969 470 SCI2
Bee behavior, Bees, Feeding, Halictinae, Social insects.

4530-69
LOPIDEA UHLER: NEW SPECIES AND RECORDS FROM MEXICO AND SOUTHWESTERN UNITED STATES WITH MAYAMIRIS, RELATED NEW GENUS FROM MEXICO (HEMIPTERA, MIRIDAE).
H H Knight J C Schaffner
Iowa State J Sci 43(1):71-81
Aug 1968 470 IO9
Hemiptera, Insect taxonomy, Lopidea, Mayamiris, Miridae. The author discusses 9 species of the Lopidea

4531-69
AN ACTION OF INSECT HORMONES ON CARBOHYDRATE METABOLISM IN INSECTS.
M Kobayashi
J Sericult Sci Jap 36(4):302-308
Aug 1967 425.9 SE6
Bombyx mori, Carbohydrates, Diapause, Experimental insects, Glucose, Growth factors, Hormones, Insect metabolism, Insect physiology, Pupae, Radioactivity, Samia cynthia pryeri, Synthesis, Temperature, Trehalose. Japanese summary.

4532-69
FAUNA OF THE PREDATOR BUGS (HEMIPTERA-HETEROPTERA) OCCURRING ON APPLE TREES IN THE DISTRICT OF POZNAN. (POL)
A Korcz
Pol Pismo Entomol 37(3):581-586 MAP REF
30 Oct 1967 421 P76
Apples, Biological control (insects), Heteroptera, Insect identification, Predaceous insects.

4533-69
ARADIDAE IN THE BISHOP MUSEUM, HONOLULU (HEMIPTERAHETEROPTERA).
N A Kormileu
Pacific Insects 9(3):447-479
20 Aug 1967 421 P11
Catalogs, Hemiptera, Insect taxonomy, Zoogeography.

4534-69
INVESTIGATIONS OF FAUNA OVERWINTERING IN OR UNDER THE BARK OF APPLE TREES. PART II. STUDIES ON ARACHNIDA. (POL)
M Koslinska
Pol Pismo Entomol 37(3):587-602 REF
30 Oct 1967 421 P76
Apples, Arachnida, Bark, Beneficial insects, Hibernation, Insect populations, Predaceous insects. English summary.

4535-69
THE PRESENCE OF VOLATILE FATTY ACIDS IN THE GUT OF A HIGHER TERMITE (MICROCEROTERMES EDENTATUS WAS., AMITERMITINAE). (FR)
J Kovoor
Acad Sci Compt Rend Ser D Sci Nat 264(3, 1ST SEMESTER):486-488
16 Jan 1967 505 P21
Abdomen, Fatty acids, Insect biochemistry, Insect physiology, Intestines, Isoptera.

4536-69
SPERMIOGENESIS IN AEDES AEGYPTI (L.).
E S Krafsur J C Jones
Cytologia 32(3-4):450-462
Dec 1967 44.8 C99
Aedes aegypti, Cytology, Electron microscopy, Spermatogenesis.

4537-69
INFORMATION ON A NATURAL BACTERIAL EPIZOOTIC DISEASE ON EPHESTIA KUHNIELLA ZELLER, CAUSED BY A BACILLUS OF THE TYPE OF BACILLUS THURINGIENSIS. (FR)
E S Kurstak
Entomophaga Mem Hors Ser (2):245-247
1964 421 EN835M
Anagasta kuehniella, Bacillus cereus, Bacillus thuringiensis, Biological control (insects), Epizootic diseases, Insect diseases, Mortality, Parasitism, Protozoa, Venturia canescens. English summary.

4538-69
EVIDENCE, BY CELLULOSE ACETATE ELECTROPHORESIS, OF A VITELLOGENETIC PROTEIN IN THE HEMOLYMPH OF THE FEMALE IMAGO OF THE CABBAGE PIERID (PIERIS BRASSICAE L.). (FR)
M Lamy
Acad Sci Compt Rend Ser D Sci Nat 265(14, 2ND SEMESTER):990-993
02 Oct 1967 505 P21
Electrophoresis, Hemolymph, Insect biochemistry, Insect genetics, Pieris brassicae, Proteins.

4539-69
CRITHIDIA MELLIFICAE N. SP. AN ACIDOPHILIC TRYPANOSOMATID OF THE HONEY BEE APIS MELLIFERA.
D F Langridge R B McGhee
J Protozool 14(3):485-487
Aug 1967 439.8 J82
Apis mellifera, Crithidia mellificae, Culture media, Hydrogen-ion concentration, Insect diseases, Protozoa, Trypanosomatidae.

4540-69
THE ORIGIN AND GROWTH OF THE GENITAL DISC IN DROSOPHILA MELANOGASTER MEIG. (FR)
G Lauge
Acad Sci Compt Rend Ser D Sci Nat 265(11, 2ND SEMESTER):814-817 REF
11 Sep 1967 505 P21
Drosophila melanogaster, Metamorphosis, Reproductive organs.

4541-69
IN VITRO CULTURE OF THE OVARIES OF TENEBRIO MOLITOR (COLEOPTERA). THE IMPORTANCE OF THE COMPOSITION OF THE MEDIUM FOR SURVIVAL, GROWTH, AND YOLK FORMATION. (FR)
A M Laverdure
Acad Sci Compt Rend Ser D Sci Nat 265(6, 2ND SEMESTER):505-507
07 Aug 1967 505 P21
Culture media, Insect physiology, Ovaries, Tenebrio molitor, Tissue culture.

4542-69
THE MODE OF ACTION OF THE CORPORA ALLATA IN THE COURSE OF YOLK FORMATION IN TENEBRIO MOLITOR (COLEOPTERA). (FR)
A M Laverdure
Acad Sci Compt Rend Ser D Sci Nat 265(2, 2ND SEMESTER):145-146
10 Jul 1967 505 P21
Corpora allata, Insect physiology, Oogenesis, Tenebrio molitor.

4543-69
INHIBITION OF THE OVIPOSITION BEHAVIOR OF THE MIGRATOR LOCUST (LOCUSTA MIGRATORIA L.) CAUSED BY THE SALINITY OF THE SOIL. (FR)

J R Le Berre I Jaillet
Acad Sci Compt Rend Ser D Sci Nat 265(5, 2ND SEMESTER):430-433
31 Jul 1967 505 P21
Insect behavior, Locusta migratoria, Oviposition, Saline soils, Soil chemistry.

4544-69
THE USE OF A HETEROPTERA, PENTATOMIDAE PERILLUS BIOCULATUS (FABR.) IN THE FIGHT AGAINST THE POTATO BEETLE LEPTINOTARSA DECEMLINEATA (SAY): FIRST RESULTS OBTAINED IN FRANCE. (FR)
J R Le Berre G Portier
Entomophaga 8(3):183-190
1963 421 EN835
Beneficial insects, Biological control (insects), Insect pests, Leptinotarsa decemlineata, Pentatomidae, Perillus bioculatus, Potatoes, Predaceous insects. English summary.

4545-69
ADULT EMERGENCE INTERVAL AND REPRODUCTION IN PARASITIC HYMENOPTERA INFLUENCED BY HOST SIZE AND DENSITY.
E F Legner
Entomol Soc Amer Ann 62(1):220-226 REF
15 Jan 1969 420 EN82
Hippelates collusor, Hymenoptera, Insect behavior, Insect biology, Insect morphology, Insect physiology, Musca domestica, Parasitic insects, Reproduction.

4546-69
IN VITRO CULTURE OF THE OVARIES OF TENEBRIO MOLITOR (COLEOPTERA). GROWTH AND YOLK FORMATION. (FR)
T Lender A M Laverdure
Acad Sci Compt Rend Ser D Sci Nat 265(5, 2ND SEMESTER):451-454
31 Jul 1967 505 P21
Culture media, Oogenesis, Ovaries, Tenebrio molitor, Tissue culture.

4547-69
CONTRIBUTION TO THE BIOLOGICAL STUDY OF THE DIPTERA SARCOPHAGIDAE, PARASITES OF ACRIDIDS. THE BIOLOGICAL CYCLE OF BLAESOXIPHA ROSSICA VILL., INJECTION OF LARVAE IN THE BODY OF THE HOST BY THE FEMALE SARCOPHAGIDAE. (FR)
J Leonide
Acad Sci Compt Rend Ser D Sci Nat 265(3, 2ND SEMESTER):232-234
17 Jul 1967 505 P21
Acrididae, Insect behavior, Insect biology, Insect evolution, Larvae, Parasitic insects, Sarcophagidae.

4548-69
ECOLOGICAL AND MORPHOLOGICAL STUDY OF ROBBER FLIES OF THE TRIBE ASILINI (DIPTERA, ASILIDAE) WITH DESCRIPTIONS OF NEW GENERA AND SPECIES FROM KAZAKHSTAN AND SOVIET CENTRAL ASIA.
P A Ler
Entomol Rev 46(2,APR-JUN):232-241
Jun 1967 421 R322AE
Asilidae, Catalogs, Insect ecology, Insect morphology, Insect taxonomy, Zoogeography.

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OBSERVATIONS ON COSSUS COSSUS L. (COSSIDAE). (FR)
J de Ligondes
Alexanor 5(4):166
27 Dec 1967 421 AL2
Cossidae, Cossus cossus, Insect behavior.

4550-69
CYTOLOGY AND CYTOCHEMISTRY OF THE MYCETONE OF PSEUDOCOCCUS MARITIMUS (EARHORN) (HOMOPTERA COCCIDAE. (FR)
C Louis
Acad Sci Compt Rend Ser D Sci Nat 265(5, 2ND SEMESTER):437-440
31 Jul 1967 505 P21
Fungi, Insect biochemistry, Insect cytology, Mycetomes, Pseudococcus maritimus, Symbiosis.

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THE NATURE OF PATHOGENICITY OF PSEUDOMONAS AERUGINOSA FOR GALLERIA MELLONELLA.
O Lysenko
Entomophaga Mem Hors Ser (2):35-36
1964 421 EN835M
Biochemistry, Galleria mellonella, Insect diseases, Pseudomonas aeruginosa, Serological tests, Toxins. French summary.

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NOTES ON METHODS FOR THE EXTRACTION OF SMALL SOIL ARTHROPODS BY THE HIGH GRADIENT APPARATUS.
A Macfadyen
Pedobiologia 8(3):401-406
1968 56.8 P343
Insect collecting equipment, Methodology, Soil insects.

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INTEGRATED CONTROL OF THE FRUIT-TREE LEAF ROLLER, ARCHIPS ARGYROSPILUS (WALKER), AND THE EYE-SPOTTED BUD MOTH, SPILONOTA OCELLANA (DENIS AND SCHIFFERMULLER).
H F Madsen R S Downing
Entomol Soc Brit Columbia Proc 65:19-21
01 Aug 1968 420 B77
Archips argyrospilus, Azinphosmethyl, Chemical control (insects), Dosage, Integrated control (insects), Oils, Spilonota ocellana, Spraying.

4554-69
EVIDENCE OF A MODIFIED OVARIAN REGION IN THE HAIR GLANDS OF THE COLEOPTERON, HYDROPHILIDAE. COMPARATIVE ANATOMIC DATA. (FR)
Y P Maillard
Acad Sci Compt Rend Ser D Sci Nat 266(5, 1ST SEMESTER):500-502
29 Jan 1968 505 P21
Hydrophilidae, Insect morphology, Insect physiology, Reproductive organs.

4555-69
ON THE PRESENCE OF A VIRUS IN THE TESTICLE OF A HOMOPTERAN INSECT. (FR)
P L Maillet R Folliot
Acad Sci Compt Rend Ser D Sci Nat 264(24, 1ST SEMESTER):2828-2831
12 Jun 1967 505 P21
Electron microscopy, Homoptera, Insect physiology, Testes, Virus diseases (insects).

4556-69
NEW OBSERVATIONS ON THE TRANSPORT OF INTRANUCLEAR MICROORGANISMS, CALLED PHI PARTICLES, BY THE SPERMATOZOIDS IN HOMOPTEROUS INSECTS. (FR)
P L Maillet R Folliot
Acad Sci Compt Rend Ser D Sci Nat 264(7, 1ST SEMESTER):965-968
13 Feb 1967 505 P21
Biological transport, Cicadellidae, Insect cytology, Microorganisms, Spermatozoa.

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WATCH FOR THE CEREAL LEAF BEETLE.
G F Manson A R Boyce
Can Dep Agr Publ 1353:4P
1968 7 C16PU
Carbamates, Carbaryl, Chemical control (insects), Chrysomelidae, Corn, Grain, Grasses, Insect behavior, Insect biology, Insect identification, Insecticides, Malathion, Organophosphorus compounds, Oulema melanopus.

4558-69
PREDATORY ACTIVITY OF LUCIOLA CRUCIATA (OLIVIER, 1886) (COLEOPTERA: LAMPYRIDAE) LARVAE ON NEWLY HATCHED BIOMPHALARIA GLABRATA.
M de Maria J Pellegrino K Okabe
Mushi 41(9):121-122
10 Nov 1967 421 M97
Insect behavior, Lampyridae, Larvae, Predaceous insects, Snails.

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BIOLOGY OF THE ANT FORMICA SANGUINEA LATR. (HYMENOPTERA, FORMICIDAE) IN THE TIEN SHAN.
P I Marikovskiy
Entomol Rev 46(1,JAN-MAR):46-50 REF
Mar 1967 421 R322AE
Formicidae, Insect biology, Insect morphology, Insect physiology, Zoogeography.

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POISONING OF PIERIS BRASSICAE L. BY AN ENZYME FRACTION OF THE TOXIN OF THE CRYSTALS OF THE STRAINS BACILLUS THURINGIENSIS SEROTYPE U BERLINER AND SEROTYPE. III. ANDUZE. (FR)
D Martouret
Entomophaga Mem Hors Ser (2):213-220
1964 421 EN835M
Bacillus thuringiensis, Biochemistry, Enzymes, Gastrointestinal system, Hydrogen-ion concentration, Injections, Insect physiology, Mortality, Pieris brassicae, Poisoning, Symptomatology, Toxins. English summary.

4561-69
POLYACRYLAMIDE GEL ELECTROPHORETIC ANALYSIS OF THE PROTEINS OF LOCUSTA MIGRATORIA (L.) AND THE CORRESPONDING ALBINO MUTANT. (FR)
R Marty J P Zalta
Acad Sci Compt Rend Ser D Sci Nat 264(16, 1ST SEMESTER):2051-2054 REF
17 Apr 1967 505 P21
Albinism, Electrophoresis, Insect biochemistry, Insect mutation, Locusta migratoria, Proteins.

4562-69
INTRASPECIFIC QUALITATIVE AND QUANTITATIVE VARIATIONS OF THE HEMOLYMPH PROTEINS OF COPHOPODISMA PYRENAE (FISCH.), (ORTHOPTERA, CATANTOPIDAE) AS A FUNCTION OF BIOGEOGRAPHIC AREA. (FR)
R Marty J P Zalta
Acad Sci Compt Rend Ser D Sci Nat 264(4,-1ST SEMESTER):643-646 REF
23 Jan 1967 505 P21
Cophopodisma pyrenaea, Hemolymph, Insect evolution, Proteins, Zoogeography.

4563-69
A NEW CULTURE METHOD FOR RHYNCHOSCIARA.
E Mattingly S Ogle
Entomol Soc Amer Ann 62(1):94-96
15 Jan 1969 420 EN82
Agar, Culture media, Fermentation, Insect physiology, Insect rearing, Larvae, Peat, Rhynchosciara.

4564-69
REGULATION OF GROWTH OF NURSE NUCLEI IN THE DEVELOPMENT OF EGG FOLLICLES IN CECIDOMYIIDAE (DIPTERA).
B Matuszewski
Chromosoma 25(4):429-469 REF
05 Dec 1968 442.8 C46
Cecidomyiidae, Development, Insect metabolism, Mikiola fagi, Mitosis, Oogenesis.

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MOBILITY IN TRIBOLIUM CONFUSUM.
D J McDonald
Ecology 49(4,SUMMER):770-771
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Flour, Insect behavior, Locomotion, Tribolium confusum.

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THE ECOLOGICAL IMPORTANCE OF THE PREDATORY BEHAVIOR OF APHELINUS ASYCHIS WALKER, HYM., APHELINIDAE, AN ENDOPARASITE OF PURCERONS (HOM., APHIDIDAE). (FR)
M F Michel
Acad Sci Compt Rend Ser D Sci Nat 264(7, 1ST SEMESTER):936-939
13 Feb 1967 505 P21
Aphelinidae, Aphididae, Host relationships, Insect behavior, Insect ecology.

4567-69
COMMUNITY STUDIES ON HYMENOPTERA FOUND ON BRASSICA NAPUS. PART IV. ACULEATA. (POL)
B Miczulski
Pol Pismo Entomol 37(3):487-506 REF
30 Oct 1967 421 P76
Aculeata, Hymenoptera, Insect ecology, Insect populations, Rape. English summary.

4568-69
THE WARBLE FLY.
Great Brit Min Agr Fish Food Adv Leafl 533.4P
Jun 1968 10 G79LA
Cattle, Chemical control (insects), Hypoderma bovis, Hypoderma lineatum, Insect biology, Insect morphology, Insecticides, Maggots, Rotenone, Water pollution.

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THE PLECOPTERA OF A HEADWATER STREAM (GAITSCALE GILL, ENGLISH LAKE DISTRICT).
G W Minshall
Arch Hydrobiol 65(4):494-514 MAP REF
Feb 1969 410 AR28
Insect ecology, Plecoptera, Surveys, Temperature, Zoogeography.

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SOME PROBLEMS ON DEVELOPMENTAL PHYSIOLOGY IN THE SILKWORM EGG.
K Miya
J Sericult Sci Jap 36(4):293-296 REF
Aug 1967 425.9 SE6
Bombyx mori, Cuticle, Embryos, Insect eggs, Insect genetics, Insect morphology, Insect physiology. Japanese summary.

4571-69
EFFECT OF MELATONIN ON EGG PRODUCTION OF THE BOLL WEEVIL, ANTHONOMUS GRANDIS.
R F Moore H M Taft
Entomol Soc Amer Ann 62(1):252
15 Jan 1969 420 EN82
Anthonomus grandis, Curculionidae, Enzymes, Growth factors, Inhibitors, Insect diets, Insect eggs, Melatonin, Reproduction, Sex ratios.

4572-69
THE ROLE OF THE EXUVIAL FLUID SWALLOWED BEFORE EMERGENCE, IN THE EXPANSION OF THE WINGS OF BOMBYX MORI L.. (FR)
R Moreau J J Bounhiol
Acad Sci Compt Rend Ser D Sci Nat 265(17, 2ND SEMISTER):1234-1236
23 Oct 1967 505 P21
Bombyx mori, Exuvial fluid, Insect physiology, Wings (insects).

4573-69
REMARKS CONCERNING THE TERMINOLOGY OF THE GENITALIA ARMOR IN THE GENUS ARGYNNIS (S.L.). (LEPIDOPTERA, NYMPHALIDAE). (FR)
E V Niculescu
Alexanor 5(4):146-148
27 Dec 1967 421 AL2
Argynnis, Insect anatomy, Insect taxonomy, Lepidoptera, Nomenclature, Nymphalidae, Reproductive organs.

4574-69
THE PARTICLE LINING OF THE PLASMIC MEMBRANE IN CONNECTION WITH EXCRETION IN A SPECIALIZED REGION OF THE MIDDLE INTESTINE OF HIGHER TERMITES. (FR)
C Noirot C Noirot-Timothee J Kovoor
Acad Sci Compt Rend Ser D Sci Nat 264(5, 1ST SEMESTER):722-725 REF
30 Jan 1967 505 P21
Electron microscopy, Excretion, Insect morphology, Malpighian tubes, Plasma membrane, Termitidae.

4575-69
THE PROGRESS OF MITOSIS (ORTHOMITOSIS) IN THE MANNER OF ENDOMITOSIS IN THE MALPIGHIAN TUBULES OF THE LOCUST (LOCUSTA MIGRATORIA) (INSECTA, ORTHOPTERA). (FR)
C G Nordau
Acad Sci Compt Rend Ser D Sci Nat 264(25, 1ST SEMESTER):2919-2921
19 Jun 1967 505 P21
Insect cytology, Locusta migratoria, Mitosis.

4576-69
POLYMORPHISM IN MALES OF THE SUGARCANE LEAFHOPPER, PERKINSIELLA SACCHARICIDA.
A W Osborn
Entomol Soc Amer Ann 62(1):247
15 Jan 1969 420 EN82
Delphacidae, Insect physiology, Insect populations, Perkinsiella saccharicida, Polymorphism.

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PROTHETELY IN CARABIDAE OF THE GENUS PTEROSTICHUS. (GE)
W Paarmann
Zool Beitr 13(1):121-135 REF
1967 410 Z753
Carabidae, Development, Insect morphology, Larvae, Pterostichus, Wings (insects).

4578-69
RECENT DATA ON THE ORIGIN OF LARVAL POLYMORPHISM AT HATCHING IN THE MIGRATORY GRASSHOPPER, SCHISTOCERCA GREGARIA FORSKAL. (FR)
M Papillon
Acad Sci Compt Rend Ser D Sci Nat 268(12, 1ST SEMESTER):1640-1642
24 Mar 1969 505 P21
Insect morphology, Larvae, Oothecae, Polymorphism, Schistocerca gregaria.

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STUDY OF THE TEGUMENTARY GLANDS AND THEIR SECRETORY CYCLE IN THE LARVA OF TIPULA FLAVOLINEATA MEIG.. (FR)
J C Pihan
Acad Sci Compt Rend Ser D Sci Nat 265(17, 2ND SEMESTER):1202-1205
23 Oct 1967 505 P21
Cuticle, Glands (insects), Insect histology, Insect physiology, Larvae, Secretion, Tipula flavolineata.

4580-69
STUDY OF THE TRACHEAL UNITS AND NODULAR TRACHEAL CELLS IN TIPULA FLAVOLINEATA MEIG.. (FR)
J C Pihan
Acad Sci Compt Rend Ser D Sci Nat 264(19, 1ST SEMESTER):2311-2313
08 May 1967 505 P21
Insect histology, Larvae, Tipula flavolineata, Trachea.

4581-69
ACTION OF NATURAL IONIZING RADIATIONS ON REPRODUCTION IN THE METAZOA: RESEARCH ON DROSOPHILA MELANOGASTER. (FR)
H Planel J P Soleilhavoup M C Giess R Tixador
Acad Sci Compt Rend Ser D Sci Nat 264(5, 1ST SEMESTER):755-758
30 Jan 1967 505 P21
Drosophila melanogaster, Insect biology, Insect reproduction, Ionizing radiation, Radiobiology.

4582-69
DATA IN EVIDENCE OF A RETARDATION OF DEVELOPMENT OF DROSOPHILA MELANOGASTER BY A REDUCTION IN THE NATURAL ENVIRONMENTAL RADIATION. (FR)
H Planel J P Soleilhavoup M C Giess R Tixador
Acad Sci Compt Rend Ser D Sci Nat 264(6, 1ST SEMESTER):865-868
06 Feb 1967 505 P21
Development, Drosophila melanogaster, Environmental control, Radiation.

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APOMYELOIS BISTRIATELLA: A MOTH WHICH FEEDS IN AN ASCOMYCETE FUNGUS (LEPIDOPTERA: PYRALIDAE).
J A Powell
N Y Entomol Soc J 75(4):190-194
Dec 1967 420 N48J
Ascomycetes, Food habits, Insect identification, Pyralidae.

4584-69
EVIDENCE OF A VARIANT OF THE VESICULAR STOMATITIS VIRUS (INDIANA STRAIN) WHICH CONFERS A RETARDED SENSITIVITY TO CARBONIC GAS IN DROSOPHILA MELANOGASTER. (FR)
P Printz
Acad Sci Compt Rend Ser D Sci Nat 265(2, 2ND SEMESTER):169-172
10 Jul 1967 505 P21
Carbon dioxide, Drosophila melanogaster, Vesicular stomatitis virus, Virus diseases (insects).

4585-69
OBSERVATIONS ON THE ULTRASTRUCTURE OF THE PARASYMPATHETIC ORGANS OF THE PHASMIDS. (FR)
M Raabe F Ramade
Acad Sci Compt Rend Ser D Sci Nat 264(1, 1ST SEMESTER):77-80
04 Jan 1967 505 P21
Electron microscopy, Nervous system, Phasmatodea, Ultrastructure.

4586-69
DIAPAUSE IN APANTELES CONGREGATUS.
R L Rabb R Thurston
Entomol Soc Amer Ann 62(1):125-128
15 Jan 1969 420 EN82
Apanteles congregatus, Braconidae, Diapause, Experimental insects, Insect physiology, Larvae, Manduca sexta, Parasitism, Photoperiodism.

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THE IMPORTANCE OF HETEROGENEITY IN THE SEXUAL ATTRACTION EXERCISED BY FEMALE ACROLEPIA ASSECTELLA ZELLER. (FR)
R Rahn V Labeyrie
Acad Sci Compt Rend Ser D Sci Nat 265(5, 2ND SEMESTER):427-429
31 Jul 1967 505 P21
Acrolepia assectella, Metamorphosis, Ovaries, Secretion, Sex behavior.

4588-69
THE PRESENCE OF POSITIVE PARALDEHYDE FUCHSIN GRANULES IN THE PEDICLE OF THE OVARY OF PYRILLA PERPUSILLA WALKER (INSECTA HOMOPTERA FULGOROIDEA). (FR)
P S Ramamurty Y Krishnanandam
Acad Sci Compt Rend Ser D Sci Nat 266(5, 1ST SEMESTER):519-521 REF
29 Jan 1968 505 P21
Insect biochemistry, Oogenesis, Ovaries, Pyrilla perpusilla.

4589-69
INTRANUCLEAR CRYSTALS IN THE MIDGUT EPITHELIUM OF A FLEA.
P A Richards A G Richards
Entomol Soc Amer Ann 62(1):249-250
15 Jan 1969 420 EN82
Ctenophthalmus, Epithelium, Gastrointestinal system, Insect physiology.

4590-69
THE CHROMOSOME FORMULA OF THE CAVE ORTHOPTERA TROGLOPHILUS NEGLECTUS (RHAPHIDOPHORIDAE). (FR)
P Saltet
Acad Sci Compt Rend Ser D Sci Nat 265(18, 2ND SEMESTER):1313-1316
30 Oct 1967 505 P21
Chromosomes, Insect genetics, Insect taxonomy, Tettigoniidae.

4591-69
EXPERIMENT ON THE INFLUENCE OF BACILLUSCEREUS VAR. GALLERIAE AND OF LINDANE ON SITOTROGA CEREALELLA OLIV. AND ON TRICHOGRAMMA CACOECIAE MARCH. (FR)
H Sandner J Kot
Entomophaga Mem Hors Ser (2):545-547
1964 421 EN835M
Bacillus cereus, Insect eggs, Insecticides, Integrated control (insects), Larvae, Lindane, Parasites, Sitotroga cerealella, Trichogramma cacoeciae. English summary

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THE OCCURRENCE OF THEOGNIS OCCIDENTALIS IN THE MIDWESTERN UNITED STATES (HETEROPTERA: COREIDAE).
J C Schaffner
Kans Entomol Soc J 40(2):141-142
Apr 1967 420 K13
Biology, Coreidae, Geography, Hibernation, Insect behavior, Leptoglossus occidentalis, Research.

4593-69
ELECTRICAL RESISTANCE OF INTACT INTEGUMENT THROUGHOUT THE MOLT CYCLE OF A COCKROACH.
P O Scheie
Compar Biochem Physiol 29(1):479-482
Apr 1969 444.8 C73
Cuticle, Electrophysiology, Insect physiology, Molting (insects), Periplaneta americana, Resistance.

4594-69
THE POSSIBILITIES OF REGULATING THE LABIAL IMAGINAL DISC IN CALLIPHORA ERYTHROCEPHALA MEIGEN. (FR)
J Schoeller-Raccaud
Acad Sci Compt Rend Ser D Sci Nat 265(17, 2ND SEMESTER):1230-1233
23 Oct 1967 505 P21
Calliphora vicina, Insect physiology, Metamorphosis, Mouth parts.

4595-69
RANCHO GRANDE (VENEZUELA). 2. MICROHABITATS OF. (SP)
J V Scorza I Gomez M T De McLure M Remirez
Acta Biol Venezuelica 6(1):1-27 REF
31 Mar 1968 475 AC86
Habitats, Humidity, Insect ecology, Methodology, Microclimate, Phlebotomus. English abstract

4596-69
BIOLOGICAL OBSERVATIONS ON SOME SANDFLIES (PHLEBOTOMUS) OF RANCHO GRANDE (VENEZUELA). 3. BIONOMICAL NOTES ON PHLEBOTOMUS TOWNSENDI ORTIZ, 1959 AND P. VEXILLARIUS FAIRCHILD HERITIG, 1952. (SP)
J V Scorza I Gomez M Ramirez
Acta Biol Venezuelica 6(1):28-40 REF
31 Mar 1968 475 AC86
Habitats, Insect behavior, Insect rearing, Methodology, Phlebotomus. English abstract

4597-69
BIOLOGY OF WASPS OF THE TRIBE CERCERINI, WITH A LIST OF THE COLEOPTERA USED AS PREY.
H A Scullen J L Wold
Entomol Soc Amer Ann 62(1):209-214 REF
15 Jan 1969 420 EN82
Biological control (insects), Bruchidae, Buprestidae, Chrysomelidae, Coleoptera, Curculionidae, Eucerceris, Food, Hymenoptera, Insect behavior, Insect biology, Insect pests, Insect physiology, Larvae, Predaceous insects, Sphecidae, Tenebrionidae. The authorlists the species of wasp and beetles used as prey.

4598-69
ORIENTATION OF CARRION BEETLES TO CARRION: RANDOM OR NONRANDOM .
P P Shubeck
N Y Entomol Soc J 76(4):253-265 REF
Dec 1968 420 N48J
Coleoptera, Food habits, Insect behavior.

4599-69
INTESTINAL TRANSPORT AND METABOLISM OF D-AMINO ACIDS IN THE SILKWORM, BOMBYX MORI L.
M B Shyamala J V Bhat
J Sericult Sci Jap 36(4):320-326 REF
Aug 1967 425.9 SE6
Absorption, Amino acids, Bombyx mori, Dinitrophenols, Insect metabolism, Insect physiology, Intestines, Isomers, Radioactivity, Valine. Japanese summary.

4600-69
TRANS-OVUM TRANSMISSION OF INSECT VIRUSES AS A BIOLOGICAL CONTROL.
W A Smirnoff
Entomophaga Mem Hors Ser (2):459-460
1964 421 EN835M
Biological control (insects), Dosage, Insect diseases, Insect eggs, Insect pests, Neodiprion swainei, Trichiocampus irregularis, Trichiocampus viminalis. French summary.

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SOME EFFECTS OF CASTRATION ON THE PROTOCEREBRAL NEUROSECRETION OF THE FEMALES OF POLISTES (HYMENOPTERA, VESPIDAE). (FR)
A Strambi
Acad Sci Compt Rend Ser D Sci Nat 264(16, 1ST SEMESTER):2031-2034
17 Apr 1967 505 P21
Castration, Nervous system, Ovaries, Polistes, Secretions, Vespidae.

4602-69
FEEDING AND NUTRITION OF LYGUS HESPERUS. III. LIMITED GROWTH AND DEVELOPMENT ON A MERIDIC DIET.
F E Strong E Kruitwagen
Entomol Soc Amer Ann 62(1):148-155
15 Jan 1969 420 EN82
Amino acids, Insect morphology, Insect nutrition, Insect physiology, Insect rearing, Lygus hesperus, Micronutrients, Miridae, Sterols, Sucrose, Vitamins.

4603-69
ON THE INVESTIGATIVE METHODS OF THE SOUND CHARACTERISTICS OF SMALL CICADAS (HOMOPTERA-CICADINA). (GE)
H Strubing
Zool Beitr 13(2-3):265-284
1967 410 Z753
Cicadidae, Laboratory equipment, Methodology, Research, Stridulation.

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THE NYMPHAL INSTARS OF FOUR LACE BUGS FROM CZECHOSLOVAKIA. (HETEROPTERA, TINGIDAE).
J M Stusak
Acta Ent Bohemoslov 59(2):111-123
20 Apr 1962 420 C33
Insect identification, Insect physiology, Insect taxonomy, Nymphs, Tingidae. Czech summary.

4605-69
SINGLE UNIT ACTIVITY IN THE VISUAL PATHWAY OF THE BUTTERFLY HELICONIUS ERATO.
S L Swihart
J Insect Physiol 14(11):1589-1601 REF
Nov 1968 421 J825
Heliconius erato, Insect behavior, Insect physiology, Nervous system, Nymphalidae, Secretion, Vision.

4606-69
STUDY OF THE CORPUS ALLATUM IN LIVING LARVAE OF THE BLOW FLY CALLIPHORA ERYTHROCEPHALA MG. (DIPTERA, CALLIPHORIDAE).
N A Tamarina
Entomol Rev 46(2,APR-JUN):168-173 REF
Jun 1967 421 R322AE
Calliphora vicina, Histology, Insect physiology, Larvae.

4607-69
EFFECT OF HIGH TEMPERATURES ON THE RESISTANCE OF INSECTS TO INFECTIOUS DISEASES.
Y Tanada
J Sericult Sci Jap 36(4):333-340 REF
Aug 1967 425.9 SE6
Dosage, Experimental insects, Heat treatment, Infectious diseases, Insect physiology, Insect vectors, Resistance, Temperature, Virus diseases (plants). Japanese summary.

4608-69
THE INFLUENCE OF EXTERNAL FACTORS ON THE ANTICIPATED ELIMINATION OF THE DIAPAUSE OF PSYLLA PYRI (HOMOPTERA: PSYLLIDAE). (FR)
N Thanh-Xuan
Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1445-1448
13 Mar 1967 505 P21
Insect diapause, Larvae, Photoperiodism, Psylla pyricola, Temperature.

4609-69
THE ACTION OF DIFFERENT TEMPERATURES ON THE DURATION OF POSTEMBRYONIC DEVELOPMENT AND THE DURATION BETWEEN MOLTS IN ADULTS OF SIX SPECIES OF EPIGEOUS AND CAVE COLLEMBOLA, HYPOGASTRURIDAE. (FR)
J M Thibaud
Acad Sci Compt Rend Ser D Sci Nat 266(3, 1ST SEMESTER):256-258
15 Jan 1968 505 P21
Collembola, Development, Insect physiology, Metamorphosis, Temperature.

4610-69
AN EPIDEMIC OF ENTOMOPHTHORA AMONG SYRPHID FLIES OF THE REGION OF GENEVA. (FR)
G Turian
Entomophaga Mem Hors Ser (2):143-147
1964 421 EN835M
Empusa, Entomogenous fungi, Insect diseases, Syrphidae. English summary.

4611-69
A COMPARATIVE MORPHOLOGICAL STUDY OF THE MALE EXTERNAL GENITALIA OF THE TYPE-SPECIES OF SOME SOUTH AFRICAN NOTODONTIDAE (LEPIDOPTERA).
E Van Den Berg
Entomol Soc Southern Afr J 31(2):265-289
Sep 1968 420 EN86
Insect physiology, Notodontidae, Reproductive organs.

4612-69
PRACTICAL APPLICATION OF BACILLUS THURINGIENSIS. (GE)
J Vankova
Entomophaga Mem Hors Ser (2):271-291 REF
1964 421 EN835M

Bacillus thuringiensis, Biological assay, Biological control (insects), Biological products, Insect diseases, Lepidoptera, Pieris brassicae, Tables (data), Vegetables. English summary.

4613-69
ELECTRON MICROSCOPE STUDY OF THE VIRUS OF THE GRANULOSIS OF THE FALL WEBWORM (HYPHANTRIA CUNEA DRURY). (FR)
L Vasiljevic
Entomophaga Mem Hors Ser (2):383-391 REF
1964 421 EN835M
Caterpillars, Electron microscopy, Granuloses, Hyphantria cunea, Insect diseases, Polyhedroses. English summary.

4614-69
VIRUS MULTIPLICATION. (FR)
L Vasiljevic
Entomophaga Mem Hors Ser (2):407-416 REF
1964 421 EN835M
Biological control (insects), Insect diseases, Reproduction, Virology, Viruses. English summary.

4615-69
OBSERVATIONS ON THE MORPHO-BIOLOGY OF PNIGALIO MEDITERRANEUS FERR. AND DEL. (HYM. EULOPHIDAE). (IT)
G Viggiani
Entomophaga 8(3):191-198 REF
1963 421 EN835
Dacus oleae, Eulophidae, Insect biology, Insect morphology, Insect pests, Parasitic insects, Pnigalio mediterraneus, Zoogeography. English summary.

4616-69
BIOLOGY OF GYNAIKOTHRIPS KARNYI BAGNALL, THE MARGINAL GALL FORMING THRIPS OF PEPPER.
A Visalakshi K V Joseph
Agr Res J Kerala 5(1/2,MAR-SEP):79-81
1967 22 AG823
Gall-making insects, Gynaikothrips karnyi, India, Insect biology, Insect pests, Piper nigrum, Predaceous insects.

4617-69
EFFECT OF SOME DISINFECTANTS ON THE FLACHERIE VIRUS OF THE SILKWORM, BOMBYX MORI L. (JA)
M Watanabe T Funada A Kubota T Kawakami K Aizawa S Kita
J Sericult Sci Jap 37(3):213-218
Jun 1968 425.9 SE6
Antiseptics, Biochemistry, Bombyx mori, Calcium hypochlorite, Flacherie, Formaldehyde, Hydrochloric acid, Insect diseases, Viruses.

4618-69
AN AUTORADIOGRAPHIC STUDY OF INVERTEBRATE UPTAKE OF DDT-CL36.
E J Webster
Ohio J Sci 67(5):300-307
Sep 1967 410 OH3
Aquatic animals, Autoradiography, Chlorinated hydrocarbons, Chlorine, DDT, Drying, Invertebrates, Reproductive organs, Tissues.

4619-69
HONEY BEE RECRUITMENT TO FOOD SOURCES: OLFACTION OR LANGUAGE.
A M Wenner P H Wells D L Johnson
Science 164(3875):84-86 REF
04 Apr 1969 470 SCI2
Apis mellifera, Food supply, Insect behavior, Insect physiology, Olfactory responses, Secretion, Smell.

4620-69
THE INFECTION OF IMMATURE AQUATIC INSECTS BY LARVAL PARAGORDIUS (NEMATOMORPHA).
D A White
Great Basin Natur 29(1):44
28 Mar 1969 410 G79
Aquatic insects, Insect nematodes, Larvae, Nematomorpha, Surveys.

4621-69
CATERPILLAR SIZE AND THE DOSAGE OF BACILLUS THURINGIENSIS PREPARATIONS. (GE)
H Wiegand
Entomophaga 8(1):35-41
1963 421 EN835
Bacillus thuringiensis, Caterpillars, Dosage, Endotoxins, Regression analysis, Tables (data). English summary.

4622-69
RESULTS OF FIELD EXPERIMENTS CARRIED OUT IN 1954 AND 1955 IN SWITZERLAND CONCERNING THE MICROBIAL CONTROL OF THE LARVAE OF MELOLONTHA MELOLONTHA L. (GE)
H Wille T Wiken P Bovey
Entomophaga 7(2):161-174 REF
1962 421 EN835
Bacteria, Beauveria, Biological control (insects), Entomogenous fungi, Insect diseases, Larvae, Melolontha melolontha. English summary.

4623-69
PHYSIOLOGICAL RESPONSES OF INSECTS TO NICOTINE.
R S H Yang F E Guthrie
Entomol Soc Amer Ann 62(1):141-146 REF
15 Jan 1969 420 EN82
Bombyx mori, Hemolymph, Hydrogen-ion concentration, Insect adaptation, Insect physiology, Manduca sexta, Nervous system, Nicotine, Permeability, Tolerances.

4624-69
ELECTROPHYSIOLOGICAL STUDY OF CONTACT CHEMORECEPTORS IN BLOOD-SUCKING DIPTERA.
Yu A Yelizarov Ye Kh Zolotarev Ye Ye Sinitsyna
Entomol Rev 46(2,APR-JUN):162-167 REF
Jun 1967 421 R322AE
Chemoreceptors, Electrophysiology, Insect physiology, Stomoxys calcitrans, Tabanus.

4625-69
RESPONSE OF SOME STORED-PRODUCT INSECTS TO TROGODERMA GRANARIUM PHEROMONES.
U Yinon A Shulov
Entomol Soc Amer Ann 62(1):172-175
15 Jan 1969 420 EN82
Callosobruchus maculatus, Dermestes maculatus, Insect behavior, Insect breeding, Insect physiology, Insect repellents, Lasioderma serricorne, Oryzaephilus surinamensis, Pheromones, Sex attractants, Sitophilus oryzae, Statistical analysis, Stored product insects, Tenebrio molitor, Tribolium castaneum, Trogoderma granarium.

4626-69
ESTERASE AND PHOSPHATASE POLYMORPHISM IN NATURAL POPULATION OF WILD SILKWORM, THEOPHILA MANDARINA L. (JA

N Yoshitake
J Sericult Sci Jap 37(3):195-200 REF
Jun 1968 425.9 SE6
Biochemistry, Esterases, Insect physiology, Phosphatases, Polymorphism, Population, Theophila mandarina.

GENETICS

4627-69
CHANGES OF DNA REPLICATION BEHAVIOR ASSOCIATED WITH INTRAGENIC CHANGES OF THE WHITE REGION IN DROSOPHILA MELANOGASTER.
L Arcos-Teran W Beermann
Chromosoma 25(4):377-391
05 Dec 1968 442.8 C46
Autoradiography, Chromosomes, Cytogenetics, Deoxyribonucleic acid, Drosophila melanogaster, Genes, Insect biochemistry, Insect genetics.

4628-69
A SPECIFIC CHROMOSOME ELEMENT, THE TELOMERE OF DROSOPHILA POLYTENE CHROMOSOMES.
H D Berendes G F Meyer
Chromosoma 25(2):184-197 REF
08 Oct 1968 442.8 C46
Chromosomes, Cytogenetics, Drosophila hydei, Insect genetics, Salivary glands.

4629-69
DROSOPHILA DEOXYRIBONUCLEASES. I VARIATION OF DEOXYRIBONUCLEASES IN DROSOPHILA MELANOGASTER.
J B Boyd
Biochim Biophys Acta Enzymol 171(1):103-112 REF
07 Jan 1969 381 B522
Deoxyribonucleases, Drosophila melanogaster, Electrophoresis, Enzymes, Escherichia coli, Fractionation, Insect genetics, Insect morphology.

4630-69
ON THE STRUCTURE OF THE SALIVARY CHROMOSOMES OF BILOBELLA MASSOUDI CASSAGNAU (COLLEMBOLA: NEANURIDAE). (FR)
P Cassagnau
Chromosoma 24(1):42-58
11 Apr 1968 442.8 C46
Chromosomes, Collembola, Cytogenetics, Insect genetics, Salivary glands. English and German abstracts.

4631-69
EXTRA REPLICATIONS IN THE DNA-PUFFS OF SCIARA COPROPHILA.
H V Crouse H G Keyl
Chromosoma 25(3):357-364 REF
05 Nov 1968 442.8 C46
Chromosomes, Cytogenetics, Deoxyribonucleic acid, Insect genetics, Larvae, Sciara coprophila.

4632-69
THE SALIVARY GLAND CHROMOSOMES OF THE MOSQUITO CULEX PIPIENS. I. THE NORMAL CHROMOSOME COMPLEMENT. (GE)
L Dennhofer
Chromosoma 25(3):365-376 REF
05 Nov 1968 442.8 C46
Chromosomes, Culex pipiens, Cytogenetics, Insect genetics, Salivary glands. English abstract.

4633-69
DNA SYNTHESIS IN THE NEO-X NEO-Y SEX DETERMINATION SYSTEM OF DICHROPLUS BERGI (ORTHOPTERA: ACRIDIDAE).
M O Diaz F A Saez
Chromosoma 24(1):10-16
11 Apr 1968 442.8 C46
Acrididae, Autoradiography, Cytogenetics, Deoxyribonucleic acid, Insect genetics, Sex determination, Synthesis, Thymidine.

4634-69
CELLULAR DEGENERATION IN THE PRODUCTION OF SOME MUTANT PHENOTYPES IN DROSOPHILA MELANOGASTER.
D Fristrom
Z Vererbungslehre 103(4):363-379 REF
18 Mar 1969 442.8 Z34
Drosophila melanogaster, Insect cytology, Insect genetics, Mutations.

4635-69
THE INFLUENCE OF THE GENOTYPE ON THE FREQUENCY OF RADIATIONINDUCED ANEUPLOIDY IN THE OOGENESIS OF DROSOPHILA MELANOGASTER. V. A TENTATIVE EXPLANATION OF THE DIFFERENCES IN THE DOSE-RESPONSE CURVES. (RUS)
N V Glotoff
Genetika 4(7):24-29
1968 QH431.A1G4
Dosage, Drosophila melanogaster, Genotypes, Insect genetics, Irradiation, Oogenesis, Polyploidy. English summary.

4636-69
SEASONAL CHANGES IN THE DIRECTION OF MATING IN DROSOPHILA MELANOGASTER IN THE EXPERIMENTS WITH A NATURAL INVERSION. (RUS
A I Grossman M B Evgenev
Genetika 4(7):54-59 REF
1968 QH431.A1G4
Breeding, Chromosomes, Drosophila melanogaster, Insect genetics, Reproduction, Weather. English summary.

4637-69
TRANSDETERMINATION IN CELLS.
E Hadorn
Sci Amer 219(5):110-114,116,118,120
Nov 1968 470 SCI25
Cells, Drosophila melanogaster, Embryos, Insect abnormalities, Insect breeding, Insect genetics, Insect morphology, Larvae, Metamorphosis.

4638-69
PARALLEL POLYMORPHISM FOR SUPERNUMERARY SEGMENTS IN CHORTHIPPUS PARALLELUS (ZETTERSTEDT). I. BRITISH POPULATIONS.
G M Hewitt B John
Chromosoma 25(3):319-342 MAP REF
05 Nov 1968 442.8 C46
Chorthippus parallelus, Insect genetics, Insect morphology, Polymorphism, Population, Zoogeography.

4639-69
INCORPORATION OF TRITIUM-ACETAMIDE AND TRITIUM-THYMIDINE INTO THE EYE DISKS OF DROSOPHILA MELANOGASTER.
Y Hirose S Kaji
Proc Jap Acad 44(5):363-368
May 1968 513 T576
Acetamide, Autoradiography, Cells, Deoxyribonucleic acid, Drosophila melanogaster, Eyes, Insect metabolism, Insect physiology, Larvae, Mutation, Thymidine, Tissues, Tritium, Viscera.

4640-69
PATTERNS AND PATHWAYS OF CHROMOSOME EVOLUTION WITHIN THE ORTHOPTERA.
B John G M Hewitt
Chromosoma 25(1):40-74 REF
18 Sep 1968 442.8 C46
Chromosomes, Cytogenetics, Insect evolution, Insect genetics, Orthoptera.

4641-69
CYTOLOGICAL STUDIES OF ANTIPODEAN TELEOGRYLLUS SPECIES AND THEIR HYBRIDS (ORTHOPTERA: GRYLLIDAE).
H Lim V R Vickery D K M Kevan
Can J Zool 47(2):189-196 REF
Mar 1969 470 C16D
Chromosomes, Cytology, Gryllidae, Insect breeding, Insect genetics, Morphology, Polymorphism, Teleogryllus commodus.

4642-69
TRITIUM LABELLING AND CYTOCHEMISTRY OF EXTRA DNA IN ACHETA.
A Lima-de-Faria B Nilsson D Cave A Puga H Jaworska
Chromosoma 25(1):1-20 REF
18 Sep 1968 442.8 C46
Acheta domesticus, Cytogenetics, Deoxyribonucleic acid, Development, Insect genetics, Oogenesis, Radioactive tracers, Synthesis.

4643-69
THE KARYOTYPE OF SOME AUSTRALIAN SPECIES OF MACROPATHINAE (GRYLLACRIDOIDEA--RHAPHIDOPHORIDAE).
A Mesa A Ferreira R S de Mesa
Chromosoma 24(4):456-466 MAP REF
14 Aug 1968 442.8 C46
Cytogenetics, Insect genetics, Sex determination, Tettigoniidae.

4644-69
SYNAPSIS AND CROSSING OVER WITHIN A PARACENTRIC INVERSION IN THE GRASSHOPPER, CAMNULA PELLUCIDA.
U Nur
Chromosoma 25(2):198-214 REF
08 Oct 1968 442.8 C46
Acrididae, Camnula pellucida, Chromosomes, Cytogenetics, Insect genetics.

4645-69
A YELLOW MUTANT STRAIN OF THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS, THAT LACKS ERYTHROPTERIN.
E E Smissman J P R Orme
Entomol Soc Amer Ann 62(1):246
15 Jan 1969 420 EN82
Biosynthesis, Chromatography, Insect genetics, Insect mutation, Lygaeidae, Melanosis, Oncopeltus fasciatus, Pteridine.

4646-69
UNSTABLE MULTILUNAR MODIFYING GENES IN THE SILKWORM, BOMBYX MORI. III.
Y Tanaka
Proc Jap Acad 44(5):400-404 REF
May 1968 513 T576
Bombyx mori, Genes, Humidity, Insect abnormalities, Insect breeding, Insect genetics, Light, Mutation, Temperature.

4647-69
EXPERIMENTAL INDUCTION OF ANDROGENESIS, GYNOGENESIS, AND POLYPLOIDY IN BOMBYX MORI BY TREATMENT WITH CO2 GAS.
Y Tazima A Onuma
J Sericult Sci Jap 36(4):286-292 REF
Aug 1967 425.9 SE6
Amitosis, Bombyx mori, Carbon dioxide, Chemical control (insects), Insect eggs, Insect genetics, Parthenogenesis, Polyploidy. Japanese summary.

4648-69
CHROMOSOME NUMBERS OF SOME CENTRAL EUROPEAN CERAMBYCIDAE. II. (GE)
H Teppner
Chromosoma 25(2):141-151
08 Oct 1968 442.8 C46
Cerambycidae, Chromosomes, Insect genetics, Meiosis, Spermatocytes, Surveys. English abstract.

4649-69
SEX CHROMATIN IN LEPIDOPTERA. (GE)
W Traut G C Mosbacher
Chromosoma 25(3):343-356 REF
05 Nov 1968 442.8 C46
Chromatin, Cytogenetics, Insect genetics, Lepidoptera, Sex determination. English abstract.

4650-69
BARRIERS TO GENE FLOW IN NATURAL POPULATIONS OF GRASSHOPPERS. I. THE BLACK CANYON OF THE GUNNISON RIVER AND ARPHIA CONSPERSA.
R B Willey R L Willey
Psyche 74(1):42-57 MAP
Mar 1967 421 P95
Color, Genes, Grasshoppers, Heredity, Insect behavior, Insect genetics, Polymorphism, Population, Wings (insects).

MEDICAL ENTOMOLOGY

4651-69
LAELIUS UTILIS COCKERELL (HYMENOPTERA: BETHYLIDAE) STINGING A CHILD AT LONDON, ONTARIO.
W W Judd
Entomol News (philadelphia) 71(4):104
Apr 1960 421 EN88
Bethylidae, Insect identification, Insect pests, Laelius utilis, Stinging.

CROP PROTECTION

4652-69
FERTILIZATION OF SEMI-MATURE STANDS IN NEWFOUNDLAND.
Can Dep Forest Forest Prod Res Br Res News 11(6,NOV-DEC).
1968 99.9 C1625F
Aerial fertilizing, Fertilization (plants), Foliage, Forest appraisal, Forestry business economics, Forests, Nitrogen, Soil analysis, Stand increment estimates, Tree increment measurement.

4653-69
THE STATUS OF PAPAYA BREEDING IN LA MOLINA, PERU. (SP)
J C Benza V B Carrasco J B Rodriguez
Agron Trop 17(4,OCT-DEC):381-389 REF
1967 26 AG87
Papayas, Plant breeding, Plant nematodes. English summary. Nematode-resistance program initiated.

4654-69
BREEDING WORK FOR THE CREATION OF GLANDLESS COTTON VARIETIES IN CHAD. (FR)
M Buffet J Gouthiere J B Roux
Coton Fibres Trop 22(4):463-472
Dec 1967 73.8 C82
Angular leafspot, Cotton, Crop varieties, Diparopsis, Glands (plants), Gossypol, Insect pests, Plant breeding, Plant disease resistance, Plant genetics, Plant pest resistance, Podagrica. English and Spanish summaries.

4655-69
DIAZINON AGAINST PLANT PESTS. (FR)
A Bugiani S Della Pieta R Brandazza
Notiz Mal Piante (SER 3)(3/4):217-252 REF
1967 464.8 N84
Chemical control (pests), Diazinon, Insecticides, Nematodes, Organic compounds, Parasitism, Soil insects. English and Italian summaries.

4656-69
RESEARCH POSSIBILITIES AND THE IMPROVEMENT OF THE CARNATION CULTIVATED AS A CUT FLOWER. (FR)
C Buys P Poortmans M Rudelle
Notiz Mal Piante (SER 3)(3/4):75-84 REF
1967 464.8 N84
Crop varieties, Crop yields, Culture media, Dianthus caryophyllus, Greenhouse culture, Plant breeding, Plant disease control, Plant physiology. English and Italian summaries.

4657-69
MORPHOLOGY AND MODE OF GERMINATION OF CONIDIA OF HELMINTHOSPORIUM ORYZAE IN RELATION TO ITS TAXONOMY.
S B Chattopadhyay M K Dasgupta
Indian J Mycol Res 4(112):54-57 REF
1966 450 IN29
Conidia, Helminthosporium oryzae, Plant morphology, Plant taxonomy, Spore germination.

4658-69
PRESERVATIVE TREATMENTS AND SERVICE LIFE OF FENCE POSTS IN PUERTO RICO.
M Chudnoff R S Boone E Goytia
US Forest Serv Res PaperiTF (4):31P REF
Nov 1967 A99.9 F7637
Creosote, Fungi, Lumber preservatives, Pentachlorophenol, Pest control, Research, Tables (data), Termites, Wood decay, Wood properties.

4659-69
IRRIGATION BY SPRAYING. (FR)
J D'At de Saint-Foulic
232P REF PARIS, EDITIONS EYROLLES
1967 S613.A8
Economics, Equipment, Irrigation, Plant water relations, Soil moisture, Spraying, Water consumptive use.

4660-69
THE IMPORTANT FOREST PESTS OF SPAIN. (GE)
O Eichhorn

Anz Schadlingskunde 40(9):132-138 REF
Sep 1967 421 AN9
Forest conservation, Fungus diseases (plants), Insect pests, Pinus, Populus, Quercus, Tree diseases. English summary. mentions many insects, fungi, diseases of Spanish forests.

4661-69
BIBLIOGRAPHY OF BIOLOGICAL CONTROL. VIII.
J M Franz W Laux
Entomophaga 8(4):263-321 REF
1963 421 EN835
Arthropoda, Bibliography, Biological control (pests), Indexes, Weeds. Introduction is in English, German and French.

4662-69
RHIZOSPHERE ROOT EXUDATES AND THEIR EFFECT ON MICROBIAL ACTIVITY.
V Iswaran
Indian Agr Res Inst J Post-Grad School 5(2):212-218 REF
Dec 1967 22 IN2262
Amino acids, Biological control (plant diseases), Biosynthesis, Exudates, Metabolites, Microorganisms, Plant nutrition, Plant physiology, Rhizosphere, Root hairs, Saprophytes, Soil erosion, Soil microorganisms, Soil properties, Tables (data).

4663-69
RED ROT IN RESIDUAL PONDEROSA PINE STANDS ON THE NAVAJO INDIAN RESERVATION.
P C Lightle S R Andrews
US Forest Serv Rocky Mount Forest Range Exp Sta Pap RM (37):12P
1968 A99.9 F7632U
Aging, Labeling, Pinus ponderosa, Plant hardiness, Red rot, Research, Stand density, Tables (data), Tree diseases.

4664-69
CULTIVATION OF THE SAPOGENIN-BEARING DIOSCOREA SPECIES.
F W Martin M H Gaskins
USDA Prod Res Rep (103):19P REF
Sep 1968 A281.9 AG8
Breeding, Crop varieties, Drug plants, Economics, Insect pests, Plant diseases, Plant hardiness, Plant physiology, Planting, Seedlings, Steroids, Tillage, Yams.

4665-69
ANNUAL REPORT OF THE DEPARTMENT OF AGRICULTURE FOR THE YEAR 1962/63. (II).
157P MAP REF ZOMBA, MALAWI, GOVERNMENT PRINTER
1965 24 N98A
Agricultural economics, Agricultural industries, Agricultural statistics, Chemical control (weeds), Crop rotation, Crops, Ecology, Entomology, Experiment stations, Irrigation, Pest control, Soil structure. Discussion of a variety of crops.

4666-69
ZOOSPORE IN PHYTOPHTHORA PARASITICA VAR. SUBDARIFFAE.
N Mukherjee
Indian J Mycol Res 4(112):61-65 REF
1966 450 IN29
Phytophthora parasitica, Plant physiology, Spore germination, Temperature, Zoospores.

4667-69
OCCURRENCE OF ANTIBACTERIAL AND ANTIFUNGAL ACTINOMYCETES IN CULTIVATED SOILS OF WEST BENGAL.
S Mukhopadhyay
Indian J Mycol Res 4(112):66-68
1966 450 IN29
Actinomycetes, Antibiosis, Bacteria, Fungi, Soil microorganisms.

4668-69
PAPAYA BREEDING IN HAWAII.
H Y Nakasone
Agron Trop 17(4,OCT-DEC):391-399
1967 26 AG87
Papayas, Plant breeding, Plant diseases. Diseases one of many problems noted. spanish summary.

4669-69
CHANGES IN FUNGI WITH AGE. iV. ROLE OF COENZYMES IN THE RESPIRATORY DECREASES IN RHIZOCTONIA SOLANI AND SCLEROTIUM BATATICOLA.
G Nicolas D Gottlieb
J Gerontol 23(4):544-550 REF
Oct 1968 447.8 J824
Aging, Cells, Coenzymes, Fungi, Growth factors, Respiratory system, Rhizoctonia solani, Sclerotium bataticola, Tables (data).

4670-69
PLANT PROTECTION IN AGRICULTURE. (GE)
H-W Nolte
140P REF BERLIN, AKADEMIE VERLAG
1967 SB731.N6
Agriculture, Crop losses, Crops, Fungus diseases (plants), Plant injuries, Plant nematodes, Plant pests, Plant protection, Virus diseases (plants).

4671-69
NOTES ON INSECT AND GASTROPODE DAMAGE TO ENCLOSED COTTON PLANTATIONS. (FR)
G Pierrard
Coton Fibres Trop 22(4):437-438
Dec 1967 73.8 C82
Aphididae, Cicadellidae, Cotton, Gastropoda, Insect cages, Insect pests, Plantations, Prodenia litura, Pseudococcus, Synthetic fibers. English and Spanish summaries.

4672-69
THE EFFECTS OF SOIL STERILIZATION PROCEDURES ON THE MICROBIOLOGICAL EQUILIBRIUM OF THE SOIL. (FR)
J Ponchet
Notiz Mal Piante (SER 3)(314):85-92
1967 464.8 N84
Antiseptics, Biocenosis, Fumigants, Fungi, Microbiology, Population, Soil microorganisms, Soil sterilization. English and Italian summaries.

4673-69
PLANT GROWTH PROMOTING METABOLITES OF SCLEROTINIA SCLEROTIORUM (II) THE SYNTHESIS OF SCLEROTININ B.
T Sassa H Aoki K Munakata
Tetrahedron Lett (54):5703-5705
Nov 1968 385 T29
Chemical reactions, Fungi, Metabolites, Plant growth regulator, Plant physiology, Rice, Sclerotinia sclerotiorum, Spectroscopy, Synthesis.

4674-69
FAIRWAY DISEASE CONTROL.
R E Scobee
Midwest Reg Turf Conf Proc 1968 MEETING:27-28
04 Mar 1968 60.19 M58
Curvularia, Helminthosporium, Leaf blight, Leaf spot, Melting out, Plant disease control, Plant diseases, Sclerotinia, Turf, Weed control.

4675-69
MOSQUITO POLLINATION OF HABENARIA OBTUSATA (ORCHIDACEAE).
L B Thien
Amer J Bot 56(2):232-237 REF
Feb 1969 450 AM36
Aedes, Insect cages, Insect pollinators, Orchidaceae, Plant morphology, Pollination.

4676-69
BASIS FOR A PROGRAM OF PAPAYA, CARICA PAPAYA L., IMPROVMENT IN COLOMBIA. (SP)
R Torres D Rios Castano
Agron Trop 17(4,OCT-DEC):353-359
1967 26 AG87
Papayas, Plant breeding, Virus diseases (plants). English summary.

4677-69
THE USE OF GROWTH PROMOTERS TO INCREASE POTATO YIELDS. (RUS
A S Vecher M N Masny V N Reshetnikov A S Snyatkov
Sel'skokhozyast Biol 3(4):609-611
1968 S13.S44
Crop yields, Growth factors, Plant physiology, Plant regulators, Potatoes, Tables (data).

4678-69
EXPERIMENTAL HUSBANDRY FARM EXPERIENCE WITH HERBICIDES AND TILLAGE SYSTEMS FOR CEREAL GROWING.
J E Whybrew
Great Brit NAAS (nat Agr Adv Serv) Quart Rev (80,SUMMER):154-160
1968 241 G796
Crop yields, Economics, Farm management, Grain, Herbicides, Insect pests, Plant diseases, Soil properties, Tillage, Weeds.

DISEASES

4679-69
PESSIMISM OVER CROP DISEASES.
Farmer Stockbreeder 82(4123):20
17 Dec 1968 10 F228
Agricultural outlook, Conferences, Grain, Legislation, Plant diseases, Septoria, Soil-borne plant diseases, Stripe rust, Yellow dwarf.

4680-69
ROLE OF POTASH APPLICATION IN REDUCING BLACK RUST OF WHEAT.
S C Agrawal S P Singh K P Gupta
Indian J Agron 13(2):99-102
Jun 1968 22 IN235
Black rust, Chemical control (plant diseases), Fertilizers, Fungus diseases (plants), Potash, Potassium, Puccinia graminis tritici, Wheat.

4681-69
CRYPTOGAMA DISEASES OF THE ROOT SYSTEM. PREVENTION AND CONTROL. (IT)
P Alghisi
Notiz Mal Piante (SER 3)(3/4):45-66 REF
1967 464.8 N84
Cryptogamia, Cultural control (plant diseases), Fungus diseases (plants), Microorganisms, Population, Roots, Soil fungi. English summary.

4682-69
NEW FUNGICIDE PROMISES EFFECTIVE AND ECONOMICAL PLANT DISEASE CONTROL.
Anonymous
Orchardist New Zealand 41(8):265
Sep 1968 80 OR19
Agricultural economics, Bananas, Benlate, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Fusarium, Rhizoctonia solani, Verticillium albo-atrum.

4683-69
CO-OPERATIVE SPRAYING AGAINST BANANA PESTS.
Anonymous
Kenya Farmer (141):22
Apr 1968 24 R812
Bananas, Fungus diseases (plants), Fusarium oxysporum, Mycosphaerella musicola, Plant protection, Spraying.

4684-69
NEW FUNGICIDE FOR POTATO BLIGHT.
Anonymous
Aerial Appl 6(8):6
Aug 1968 333.8 AE8
Aerial spraying, Blight, Chemical control (plant diseases), Dosage, Fungicides, Fungus diseases (plants), Potatoes, Toxins, Triphenyltin hydroxide.

4685-69
THE EFFECT OF 3-AMINO-1,2,4-TRIAZOLE ON THE ULTRASTRUCTURE OF PLASTIDS OF TRITICUM VULGARE SEEDLINGS.

P C Bartels T E Weier
Amer J Bot 56(1):1-7 REF
Jan 1968 450 AM36
Amino-1,2,4-thiazole, 3-, Chlorosis, Light, Plant anatomy, Plant diseases, Plastids, Seed germination, Tissues, Wheat.

4686-69
THE ACTION OF FORMAMIDE ON TURNIP YELLOW MOSAIC VIRUS: OBTAINING ARTIFICIAL CAPSIDS. (FR)
J P Bouley L Hirth
Acad Sci Compt Rend Ser D Sci Nat 266(4, 1ST SEMESTER):430-433
22 Jan 1968 505 P21
Formamide, Mosaic, Plant biochemistry, Ribonucleic acid, Turnips, Virus diseases (plants).

4687-69
DIAGNOSES OF PEAR DECLINE AND ROOTSTOCK IDENTIFICATION IN YOUNG PEAR ORCHARDS.
Catlin A A Millecan
Calif Agr 21(7):10-11
Jul 1967 100 C12CAG
Chromatography, Decline, Diagnosis, Pears, Phloem, Roots, Tree diseases.

4688-69
PHYSIOLOGICAL STUDIES ON INCITANTS OF GUAVA WILT FUSARIUM SOLANI (MART.) APP. AND WR. EMEND SNYDER AND HANSEN AND MACROPHOMINA PHASEOLI (MAUBL.) ASHBY.
S B Chattopadhyay S K Bhattacharyya
Indian J Mycol Res 4(112):22-31 REF
1966 450 IN29
Fungus cultures, Fungus diseases (plants), Fusarium solani, Guavas, Macrophomina phaseoli, Plant physiology, Wilt.

4689-69
HOST RANGE OF XANTHOMONAS ORYZAE IN THE PHILIPPINES.
S C Dalmacio O R Exconde
Philippine Agr 51(4):283-289
Sep 1967 25 P542
Bacterial leaf blight, Plant hosts, Rice, Xanthomonas.

4690-69
THE RECIPROCAL RELATIONSHIPS IN MIXED CULTURES OF ENTOMOPHAGOUS FUNGI AND THE EFFECT OF SOME HYPHOMYCETES ON THEIR GROWTH. (GE)
O Fassatiova
Entomophaga Mem Hors Ser (2):159-161
1964 421 EN835M
Beauveria, Entomogenous fungi, Moniliales, Paecilomyces, Plant physiology, Soil fungi. French summary.

4691-69
WHEAT.
W E H Fiddian
Great Brit Min Agr Fish Food Agr 75(9):410-412
Sep 1968 10 G79J
Economics, Eyespot, Genetics, Mildew, Plant disease control, Plant disease resistance, Plant proteins, Stripe rust, Wheat.

4692-69
EFFICIENCY OF SOME FUNGICIDES IN THE DISINFECTION OF THE CARNATION ROOTS. (IT)
A Garibaldi
Notiz Mal Piante (SER 3)(3/4):135-139
1967 464.8 N84
Captan, Chemical control (plant diseases), Dianthus caryophyllus, Dosage, Fungicides, Fungus diseases (plants), Fusarium roseum, Plant cuttings, Roots, Thiram. English summary.

4693-69
THE RESISTANCE OF FX AND IAN RUBBER CLONES TO LEAF DISEASES IN BRAZIL.
J R Goncalves
Trop Agr &st Augustine& 45(4):331-336
Oct 1968 26 T754
Crop varieties, Dothidella ulei, Fungus diseases (plants), Leaves, Phytophthora palmivora, Plant disease resistance, Rubber.

4694-69
SEED CONTAMINATION IN TRANSMISSION OF HALO BLIGHT IN BEANS.
R G Grogan K A Kimble
Calif Agr 1(7):3-4
Jul 1967 100 C12CAG
Beans, Halo blight, Pseudomonas phaseolicola, Seed-borne plant diseases, Seeds.

4695-69
NEEDED: A MIRACLE METHOD FOR SOIL BORNE DISEASE CONTROL.
W Horne
Farm Chem 131(9):60
Sep 1968 57.8 AM3
Chemical control (pests), Crop losses, Disease control, Pesticides, Plant diseases, Research, Soil analysis, Soil microorganisms, Soil-borne plant diseases.

4696-69
INTER-SPECIES AND INTER-GENERA CROSSES IN CARICACEAS AND THEIR PHYTOTECHNICAL IMPLICATIONS. (SP)
S Horovitz H Jimenez
Agron Trop 17(4,OCT-DEC):323-343 REF
1967 26 AG87
Caricaceae, Papayas, Plant breeding, Plant disease resistance, Ring spot, Virus diseases (plants). English summary.

4697-69
THE PROBLEM OF THE POTATO BLACKLEG DISEASE. (GE)
W Hunnius
Kartofelbau 19(4):106,108-109
Apr 1968 75.8 K145
Bacterial diseases (plants), Blackleg, Erwinia, Infectious diseases, Parasitism, Plant injuries, Plant protection, Potatoes, Storage, Symptomatology.

4698-69
1967 FIELD TRIALS ON CONTROL OF COFFEE BERRY DISEASE IN KENYA. I.-V.
P A Huxley J A Collins D M Fordyce M N Shaw E Griffiths B H Vine G H Freeman
Kenya Coffee 33(390):225-241
Jul 1968 68.29 C652
Coffee, Coffee berry disease, Colletotrichum coffeanum, Difolatan, Dosage, Fungicides, Fungus diseases (plants), Leaf rust, Plant protection, Research.

4699-69
DISEASE CONTROL IN NONBEARING ORCHARDS.
B F Janson
Eastern Fruit Grower 30(10):4
Feb 1968 80 EA73
Apples, Canker, Captan, Cherries, Dinocap, Dodine, Fruit trees, Fungicides, Leaf curl, Leaf spot, Orchards, Peaches, Pears, Plant disease resistance, Plums, Powdery mildew, Scab, Spraying, Streptomycin, Sulfur.

4700-69
BLACK SPOT OF APPLE.
P T Jenkins
Victorian Hort Dig 11(3,SEP-NOV):2-4
1967 80 V662
Apples, Black spot, Chemical control (weeds), Fruit, Fungus diseases (plants), Plant physiology, Spraying, Venturia inaequalis.

4701-69
THE ACTION OF UREA ON TURNIP YELLOW MOSAIC VIRUS. THE PROPERTIES OF RNA OBTAINED AT THE TIME OF ARTIFICIAL CAPSID FORMATION. (FR)
G Jonard D Ralijaona L Hirth
Acad Sci Compt Rend Ser D Sci Nat 264(23, 1ST SEMESTER):2694-2697
05 Jun 1967 505 P21
Mosaic, Plant biochemistry, Ribonucleic acid, Turnips, Urea, Virus diseases (plants).

4702-69
FORM AND MECHANISM OF TRANSMISSION OF PLANT VIRUSES. TRANSMISSION OF VIRUSES BY SEEDS, POLLEN AND CONTACT OF ROOTS. (GE)
L Kunze
Berlin Biol Bundesanst Land-forstwirtsch Mitt (128):56-62 REF
Jul 1968 410.9 G31M
Beans, Cuscuta, Longidorus elongatus, Mazzard cherries, Plant disease transmission, Pollen, Roots, Seed-borne plant diseases, Virus diseases (plants).

4703-69
STUDIES ON PHYLLOSTICTA BLIGHT OF RICE.
N J Kurian L Moniz
Pocna Agr Coll Mag 58(2-3,JUN-SEP):55-62
1968 22 P79
Brachiaria mutica, Crop varieties, Fungus diseases (plants), Nomenclature, Oats, Panicum maximum, Phyllosticta, Plant disease resistance, Plant morphology, Plant physiology, Plant taxonomy, Rice, Sorghum, Tables (data).

4704-69
FIRST EVIDENCES OF VIRAL INFECTIONS IN PLANTS. (FR)
C Kurtz-Fritsch L Hirth
Acad Sci Compt Rend Ser D Sci Nat 265(3, 2ND SEMESTER):220-223
17 Jul 1967 505 P21
Mosaic, Plant disease resistance, Tobacco, Turnips, Virus diseases (plants).

4705-69
THE VIRUSES OF THE BLACK AND RED CURRANT. (FR)
B Lantin
Phytoma 20(200,JUL-AUG):25-29 REF
1968 464.8 P563
Aphididae, Currants, Insect vectors, Mosaic, Nematodes, Plant disease transmission, Symptomatology, Vein banding, Virus diseases (plants), Yellows. Several other viruses are briefly mentioned.

4706-69
ANNUAL VARIATION IN PERSISTENCE AND TRANSMISSION OF HYPOMYCES HAEMATOCOCCUS (BERK. AND BR.) WR. (FR)
E Laville
Acad Sci Compt Rend Ser D Sci Nat 264(7, 1ST SEMESTER):904-906
13 Feb 1967 505 P21
Fungi dissemination, Fungus diseases (plants), Fungus physiology, Hypomyces, Plant disease transmission.

4707-69
THE INFLUENCE OF ILLUMINATION ON THE DEVELOPMENT OF TUMORS CAUSED BY AGROBACTERIUM TUMEFACIENS (SMITH AND TOWN) CONN. ON PEA SEEDLINGS, PISUM SATIVUM L.. (FR)
P Manigault A Kurkdjian
Acad Sci Compt Rend Ser D Sci Nat 264(19, 1ST SEMESTER):2304-2306
08 May 1967 505 P21
Agrobacterium tumefaciens, Bacterial diseases (plants), Crown gall tumors, Light, Pisum sativum, Seedlings.

4708-69
POLYSOME FORMATION WITH TOBACCO MOSAIC VIRUS RNA.
A Marcus B Luginbill J Feeley
Nat Acad Sci Proc 59(4):1243-1250 REF
Apr 1968 500 N21P
Nucleoproteins, Tobacco mosaic virus, Virus diseases (plants), Wheat.

4709-69
ON THE ROLE OF THE PHENOL CONSTITUENTS IN THE COURSE OF INFECTION OF THE CACAOPODS OF THEOBROMA CACAO L. BY PHYTOPHTHORA PALMIVORA BUTL.. (FR)
M Meiffren J Tanguy

Acad Sci Compt Rend Ser D Sci Nat 265(16, 2ND SEMESTER):1131-1133
16 Oct 1967 505 P21
Cacao, Fungus diseases (plants), Phenols, Phytophthora palmivora, Plant disease resistance.

4710-69
STUDIES ON THE APPLICATION OF ELECTROPHORESIS TO THE ISOLATION OF RNA INFECTIVE FRACTIONS FROM TOBACCO PLANTS INFECTED WITH THE POTATO VIRUS X. I. CHARACTERISATION OF RNA PREPARATIONS FROM TOBACCO LEAVES, ANALYSED BY MEANS OF ELECTROPHORESIS IN COLOURED AGAR GELS. (POL)
K A Miczynski
Acta Agr Silvestria Ser Roln 7(1):23-77 REF
1967 20.5 AC8
Agar, Electrophoresis, Gels, Leaves, Plant biochemistry, Potatoes, Research, Ribonucleic acid, Tobacco, Virus diseases (plants), Virus X. English and Russian summaries.

4711-69
COMANDRA BLISTER RUST OF HARD PINES.
J L Mielke R C Krebill H R Powers
U S Forest Serv Forest Pest Leafl 62.1-8
Aug 1968 A423.9 F764
Bark, Biological control (plant diseases), Blister rust, Cronartium comandrae, Environment, Epidemiology, Fungus diseases (plants), Pinus.

4712-69
CONTRIBUTION TO THE STUDY OF A PARASITIC COMPLEX WHICH ATTACHES ITSELF TO THE EXPOSED PARTS OF COTTON PLANTS AND CAUSES THEIR WITHERING. (FR)
J Montegut
Coton Fibres Trop 22(4):439-453
Dec 1967 73.8 C82
Cercospora lhuillieri, Cotton, Fungus diseases (plants), Macrophomina phaseoli, Parasitism, Phlyctaena gossypii, Phoma. English and Spanish summaries

4713-69
THE INHERITANCE OF A NEW SOURCE OF RESISTANCE TO THE POTATO VIRUS Y IN PEPPER (CAPSICUM ANNUUM L.).
A Pahle
Bol Genet (3):23-28
May 1967 QK1.B62
Biological control (plant diseases), Breeding, Genes, Heredity, Mutation, Plant disease resistance, Plant genetics, Redpeppers (vegetable), Tables (data), Virus diseases (plants), Virus Y.

4714-69
THE LAW OF HOST-PARASITE BALANCE IN THE PROCESS OF PATHOGENESIS AND ITS IMPLICATIONS IN ECOLOGY. (SP)
H Patino C
Agr Trop 24(3):167-171 REF
Mar 1968 26 AG8
Bacterial diseases (plants), Fungus diseases (plants), Host-parasite relations, Phytopathology, Plant ecology.

4715-69
DPA FOR SCALD CONTROL.
I D Peggie
Victorian Hort Dig 11(3:SEP-NOV):11-14
1967 80 V662
Apples, Chemical control (plant diseases), DPA, Fruit, Pesticide application, Plant physiological diseases, Scald, Spraying, Storage diseases, Temperature.

4716-69
METHYL BROMIDE, TRIZONE AND TELONE PBC COMPARED IN THE CONTROL OF FUSARIUM WILT OF THE GREENHOUSE TOMATO. (IT
G Perrotta M Salerno
Notiz Mal Piante (SER 3)(3/4):147-153
1967 464.8 N84
Chemical control (plant diseases), Chloropicrin, Dichloropropene, 1,3-, Fungus diseases (plants), Fusarium, Greenhouse culture, Methyl bromide, Propargyl bromide, Tomatoes, Trizone, Wilt. English summary.

4717-69
THE EFFECT OF ROOTSTOCKS ON THE TRANSFORMATION OF SOME FACTORS OF THE PHYSIOLOGICAL IMMUNITY IN LEAVES OF MILDEW-SUSCEPTIBLE GRAPE VARIETIES. (RUS)
A D Popov
Sel'skokhozyast Biol 3(4):572-575
1968 S13.S44
Crop varieties, Grapes, Horticulture, Leaves, Mildew, Phenolases, Plant pest resistance, Plant physiology, Rootstocks. English summary.

4718-69
EFFECT OF MIXED SPORE INOCULA OF BOTRYTIS SSP. ON LESION DEVELOPMENT IN THE LEAVES OF BEAN (VICIA FABA L.).
R P Purkayastha
Indian J Mycol Res 4(112):51-53
1966 450 IN29
Botrytis, Broadbeans, Fungus cultures, Fungus diseases (plants), Lesions, Spores.

4719-69
BACTERIAL LEAF SPOT OF CHILLIES IN KERALA STATE.
L Remadevi K I Wilson
Agr Res J Kerala 5(1/2,MAR-SEP):82-83
1967 22 AG823
Bacterial diseases (plants), Bacterial leaf spot, Bush redpeppers (vegetable), Xanthomonas vesicatoria.

4720-69
THE AMPROLIUM-ETHOPABATE COMBINATION. A NEW STAGE IN THE PREVENTION OF AVIAN COCCIDIOSIS. (FR)
Y Renou M Gug A Appert
Corcoricas Monde (JUL-AUG):8-13 REF
1968 47.8 C64
Amprolium, Bacterial diseases (animals), Chickens, Coccidae, Coccidiosis, Drug therapy, Ethopabate, Hydrochloric acid, Poultry diseases, Protozoal vaccines, Turkeys.

4721-69
SUGAR BEET CROP PROTECTED THROUGH AERIAL APPLICATION.
F Russell
Aerial Appl 6(8):4-5
Aug 1968 333.8 AE8
Aerial spraying, Cercospora beticola, Chemical control (plant diseases), Copper sulfate, Crop yields, Plant protection, Sugar beets.

4722-69
BRONZING DISEASE OF RICE IN ORISSA AS INFLUENCED BY SOIL TYPES AND MANURING AND ITS CONTROL.
B N Sahu
Indian Soc Soil Sci J 16(1):41-54
Mar 1968 56.9 IN2
Bronzing, Chemical control (plant diseases), Fertilizers, Iron, Manganese, Nitrogen, Phosphates, Plant diseases, Potash, Rice, Soil series, Spraying, Toxicity, Urea.

4723-69
FUSARIUM FOOT ROT OF KENAF (HIBISCUS LANNABINUS L.) IN IRAN. (PE)
G Scharief J Akhavizadegan
Iran Inst Rech Entomol Phytopathol Entomol Phytopathol Appl (26):1-16
Nov 1967 464.9 P432
Foot rot, Fungicides, Fungus diseases (plants), Fusarium, Hibiscus cannabinus, Phytophthora, Seed treatment, Spraying, Tables (data), Wilt. Article deals with experiments with many fungicides. nine species of fungi seen on kenaf in Iran are mentioned.

4724-69
BACTERIAL BLIGHT ELMIMINATED FROM CALIFORNIA GINS.
W C Schnathorst
Calif Agr 21(12):11
Dec 1967 100 C12CAG
Bacterial diseases (plants), Blight, Cotton gins, Plant contamination, Upland cotton, Xanthomonas malvacearum.

4725-69
DISINFECTION AND DISINFESTATION OF THE SOIL. PROCEEDINGS OF THE INTERNATIONAL CONGRESS ON PLANT DISEASE. SANREMO, 1-4 DECEMBER 1966. (IT)
Notiz Mal Piante (SER 3)(3/4):312P REF
1967 464.8 N84
Conferences, Fungicides, Nematocides, Nematodes, Pest control, Plant diseases, Soil fumigation, Soil sterilization.

4726-69
THIRAM THINS GRANNY SMITH APPLES.
N Veinbrants
Victorian Hort Dig 11(3:SEP-NOV):18-20
1967 80 V662
Apples, Black spot, Carbaryl, Chemical control (plant diseases), Crop yields, Defoliants, Fungicides, Fungus diseases (plants), Spraying, Thinning (fruit), Thiram.

4727-69
CHEMICAL CONTROL OF SOME IMPORTANT CEREAL PLANT DISEASES IN INDIA.
D Vir
Indian Agr Res Inst J Post-Grad School 5(1):62-66 REF
Jun 1967 22 IN2262
Bacterial diseases (plants), Chemical control (plant diseases), Chemicals, Fungus diseases (plants), Grain, Plant diseases, Plant protection, Virus diseases (plants).

4728-69
FORM AND MECHANISM OF TRANSMISSION OF PLANT VIRUSES. TRANSMISSION OF VIRUSES BY ARTHROPODS. (GE)
H L Weidemann
Berlin Biol Bundesanst Land-forstwirtsch Mitt (128):5-23 REF
Jul 1968 410.9 G31M
Bibliography, Insect vectors, Methodology, Plant disease transmission, Reviews, Virus diseases (plants).

4729-69
FORM AND MECHANISM OF TRANSMISSION OF PLANT VIRUSES. TRANSMISSION OF VIRUSES BY NEMATODES. (GE)
B Weischer
Berlin Biol Bundesanst Land-forstwirtsch Mitt (128):24-38 REF
Jul 1968 410.9 G31M
Bibliography, Host records, Host relationships, Nematode vectors, Plant disease transmission, Reviews, Virus diseases (plants).

4730-69
FUNGUS DISEASES OF BERMUDAGRASS AND OVERSEEDED COOLSEASON GRASSES ON GOLF GREENS.
H D Wells
Southeast Turfgrass Conf Proc 21:38-41
Apr 1967 60.19 SO86
Cynodon dactylon, Fungus diseases (plants), Golf courses, Grasses, Leaf spot, Plant disease control.

4731-69
SEVERAL MEASURES USED TO COMBAT FRUIT PLANT VIRUSES.
M F Welsh
Eastern Fruit Grower 30(10):6,13-14
Feb 1968 80 EA73
Amphorophora rubi, Cultural control (plant diseases), Eriophyes incidiosis, Fruit culture, Insect control, Insect vectors, Plant pest resistance, Spraying, Virus diseases (plants).

4732-69
RUST INFECTION PROTECTS BEANS AGAINST HEAT INJURY.
C E Yarwood
Nature 220(5169):813
23 Nov 1968 472 N21
Beans, Fungus diseases (plants), Heat, Plant hardiness, Plant injuries, Plant protection, Rust, Uromyces phaseoli.

4733-69
INOCULATION OF CARICA PAPAYA L. WITH THE RINGSPOT DISTORTION VIRUS UNDER VARIOUS CONDITIONS. (SP)
D M Zerpa
Agron Trop 17(4,OCT-DEC):361-370
1967 26 AG87
Hydroxyproline, Papayas, Plant breeding, Plant disease resistance, Plant extracts, Ring spot, Virus diseases (plants). English summary.

4734-69
BLACK STEM- THE SECOND STEM DISEASE OF GRAINS. (GE)
B Zwatz
Pflanzenarzt 20(5):52-53
01 May 1967 464.9 P482
Agropyron repens, Black stem, Chemical control (plant diseases), Crop rotation, Fungus diseases (plants), Grain, Organic compounds, Plant hosts, Soil moisture, Wheat.

ARTHROPODS

4735-69
SOME PESTS OF ORNAMENTAL PLANTS IN MADRAS.
E V Abraham M D Padmanabhan
Indian Hort 12(2,JAN-MAR):31-32
1968 80 IN23
Acrididae, Agrotis, Aldrin, Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, Chrysomelidae, DDT, Heptachlor, Insect pests, Insecticides, Macropopillia arrowi, Ornamental plants, Phytometra.

4736-69
THE RELATIONSHIP OF SOME INSECTS (APHIDIDAE, LARGIDAE, PENTATOMIDAE, COCCINELLIDAE AND MALACHIIDAE) TO THE PEARLHAIRS OR GLANDULIFORM EMERGENCES OF CARICA PAPAYA L. (SP
J C M Acosta
Agron Trop 17(4,OCT-DEC):371-380 REF
1967 26 AG87
Aphididae, Attractants, Coccinellidae, Collops, Glands (plants), Insect pests, Largus cinctus, Nezara viridula, Papayas, Secretion. English summary.

4737-69
SPIDER MITES ON COTTON; HOW TO CONTROL THEM.
U S D A Leafl (502):6P
Nov 1968 1 AG84L
Acaricides, Cotton, Insect biology, Insect pests, Pesticide application, Plant injuries, Plant pest control, Plant protective devices, Protective clothing, Tetranychidae.

4738-69
DRENCH YOUR TREES AGAINST SAN JOSE SCALE.
Anonymous
Victorian Hort Dig 11(2,MAY-JUL):6
1967 80 V662
Aspidiotus perniciosus, Chemical control (insects), Equipment, Fruit, Pesticide application, Spraying, Trees.

4739-69
CONTROL OF DATE PALM LEAFHOPPERS IN IRAQ BY AERIAL SPRAYING.
Anonymous
Aerial Appl 6(8):11
Aug 1968 333.8 AE8
Aerial spraying, Chemical control (insects), Cicadellidae, Dates, Dichlorvos, Insect pests, Plant protection.

4740-69
THRIPS INFESTING THE TIPS OF ASPARAGUS SPEARS.
F L Banham
Entomol Soc Brit Columbia Proc 65:16-18
01 Aug 1968 420 B77
Asparagus, Frankliniella tritici, Insect pests, Thrips tabaci, Weed control.

4741-69
THE BIOLOGICAL CONTROL OF RED SCALE, AONIDIELLA AURANTII (MASK.), ON CITRUS IN SOUTH AFRICA.
E C G Bedford
Entomol Soc Southern Afr J 31(1):1-15 REF
Mar 1968 420 EN86
Aonidiella aurantii, Biological control (insects), Citrus.

4742-69
THE MEANING AND DEFINITION OF BIOLOGICAL CONTROL.
B P Beirne
Entomophaga 8(4):237-243
1963 421 EN835
Biological control (pests), Insect pests, Microorganisms, Plant pest control. French and German summary

4743-69
INSECT AND MITE CONTROL ON NURSERY STOCK IN OHIO.
R L Campbell R L Miller
Ohio Agr Exp Sta Dep Zool Ent Publ Ser (SER 33):11P
1967 100 OH3PU
Accident prevention, Chemical control (insects), Chemical control (pests), Host indexing (plants), Insect identification, Insect pests, Insecticides, Mites, Nurseries, Pesticides, Spraying. Suggestions for control of 20 pests most often reported by Ohio state nursery inspectors are given.

4744-69
THE BIOLOGY AND CONTROL OF ARCHIPS OCCIDENTALIS (WALS.) AND TORTRIX DINOTA MEYR. (LEPIDOPTERA: TORTRICIDAE) ON COFFEE IN KENYA.
D E Evans O Andrade W M Mathenge
Entomol Soc Southern Afr J 31(1):133-140 REF
Mar 1968 420 EN86
Chemical control (insects), Coffee, Insect biology, Insect control, Life cycle, Natural control (insects), Tortricidae, Trichlorfon.

4745-69
A STUDY OF PHANEROTOMA TOREUTAE, A PARASITE OF THE PINE CONE MOTH LASPEYRESIA TOREUTA.
J R Harbo K J Kraft
Entomol Soc Amer Ann 62(1):214-220 REF
15 Jan 1969 420 EN82
Biological control (insects), Braconidae, Forest insects, Insect ecology, Insect eggs, Insect pests, Insect physiology, Larvae, Laspeyresia toreuta, Olethreutidae, Parasitic insects, Phanerotoma toreutae, Pinus banksiana, Pinus contorta, Pinus echinata, Pinus resinosa, Pinus taeda, Pinus virginiana.

4746-69
A NEW GENE FROM RUBUS OCCIDENTALIS L. FOR RESISTANCE TO STRAINS 1, 2 AND 3 OF THE RUBUS APHID, AMPHOROPHORA RUBI KALT.
E Keep R L Knight
Euphytica 16(2):209-214 REF
Sep 1967 450 EU6
Amphorophora rubi, Aphididae, Genetics, Plant disease resistance, Raspberries.

4747-69
HARD-TO-KILL PESTS OF FRUIT TREES--WOOLLY APPLE-APHID.
H F Lower
S Australia J Agr 72(1):14-15
Aug 1968 23 SO84
Aphididae, Apples, Chemical control (insects), Crop varieties, Eriosoma lanigerum, Insect pests, Insecticide resistant insects, Insecticides, Plant pest resistance.

4748-69
NARCISSUS FLIES.
Great Brit Min Agr Fish Food Adv Leafl 183:6P
May 1968 10 G79LA
Aldrin, Benzene hexachloride, Chemical control (insects), Dieldrin, Eumerus strigatus, Eumerus tuberculatus, Insect identification, Maggots, Merodon equestris, Narcissus, Plant nematodes, Plant protection.

4749-69
PRELIMINARY OBSERVATIONS ON THE CHOICE OF HOST PLANTS BY ADULTS OF THE CITRUS PSYLLA, TRIOZA ERYPREAE (DEL GUERCIO) (HOMOPTERA: PSYLLIDAE).
V C Moran
Entomol Soc Southern Afr J 31(2):403-410 MAP REF
Sep 1968 420 EN86
Food habits, Host plants, Plant geography, Psyllidae, Rutaceae, Zoogeography.

4750-69
RESULTS OF A STUDY ON CONTROLLING TIPULA OLERCEA L. SHOWING A MARKED RESISTANCE TO SOME CHLORORGANIC INSECTICIDES. (IT)
A Muro
Il Tobacco 81(724/725,JUL-DEC):41-53 REF
1967 69.8 T115
Chemical control (insects), Chlorinated hydrocarbons, Insecticide resistant insects, Insecticides, Larvae, Organophosphorus compounds, Tipula oleracea, Tobacco. Aldrin, dieldrin, DDT and heptachlor were ineffective while lindane, heptachlor epoxide, phorate, chlordane, and granulated parathion were effective.

4751-69
INFLUENCE OF INFESTATION BY EARLY SHOOT BORER CHILOTRAEA INFUSCATELLUS SN. ON SHOOT PRODUCTION AND YIELD OF SUGARCANE.
C S Rad
Andhra Agr J 14(5):131-142 REF
1967 34.2 AN4
Chemical control (insects), Chilotraea infuscatellus, Crop yields, Endrin, Insect pests, Sugarcane.

4752-69
STUDIES ON THE POPULATION OF THE APHID PENTALONIA NIGRONERVOSA COQ. ON BANANA PLANTS IN KERALA.
M Ramanathamenon S P Christudas
Agr Res J Kerala 5(1/2,MAR-SEP):84-86
1967 22 AG823
Aphididae, Bananas, Bunchy top, Climate, Crop varieties, Insect vectors, Pentalonia nigronervosa, Plant disease transmission, Population, Virus diseases (plants).

4753-69
RESPECTIVE ROLES OF THE PATHOGEN AND GALL MITES IN THE MORPHOGENESIS AND HISTO-CYTOLOGICAL DEVELOPMENT OF TWO CHERMESIDAE GALLS. PLACED IN EVIDENCE BY THE ACHIEVEMENT OF TWO SIMILARLY MIXED GALLS. (FR)
O Rohfritsch
Acad Sci Compt Rend Ser D Sci Nat 264(7, 1ST SEMESTER):933-935
13 Feb 1967 505 P21
Adelges, Plant cytology, Plant galls, Plant histology, Plant morphology.

4754-69
PROTECTING LARCH LOGS FROM TETROPIUM VELUTINUM LECONTE WITH LINDANE EMULSION.
D A Ross N J Geistlinger
Entomol Soc Brit Columbia Proc 65:14-15
01 Aug 1968 420 B77

Chemical control (insects), Emulsions, Larix occidentalis, Lindane, Logs, Tetropium velutinum, Wood borers, Wood-destroying insects.

4755-69
STUDY OF THE DEPENDENCE OF THE POPULATION DYNAMIC OF THE APPLE MOTH (CARPOCAPSA POMONELLA L.) ON THE FRUIT YIELD OF THE HOSTPLANT. (GE)
K Russ
Pflanzenschutzberichte 35(11/12):165-184
Jun 1967 464.9 P48
Apples, Carpocapsa pomonella, Crop yields, Demography, Insect migration, Integrated control (insects), Plant hosts, Statistical analysis, Tables (data).

4756-69
ATTACK ON MOCO COTTON BY PINK BOLLWORM IN CEARA. (POR)
J H R dos Santos
Soc Cearense Agron Bol 8:97-100
Jun 1967 9.2 SO14B
Crop yields, Fibers, Pectinophora gossypiella, Plant pests, Seed insects, Seed production (horticulture), Upland cotton. English abstract.

4757-69
TOXICITY OF ORGANOPHOSPHOROUS INSECTICIDES APPLIED AS FOLIAR SPRAY, SOIL DRENCH AND SEED TREATMENT TO APHIS GOSSYPII GLOVER (APHIDIDAE: HOMOPTERA).
J M Satpathy G K Padhi D N Dutt
Indian J Agr Sci 38(5):850-855 REF
Oct 1968 22 AG83I
Aphis gossypii, Chemical control (insects), Dimethoate, Ekatin, Insecticide residues, Methyl demeton, Organophosphorus insecticides, Seed treatment, Soil treatment, Spraying.

Aphis gossypii was successfully controlled by dimethoate, methyl demeton, and thiomethion applied as foliar spray, soil drench and seed treatment with good residual activity.

4758-69
STUDY OF THE VIRUS DISEASE OF NEODIPRION SWAINEI MIDD. AND RESULTS OF ITS AERIAL DISPERSION.
W A Smirnoff
Entomophaga Mem Hors Ser (2):475-476
1964 421 EN835M
Aerial spraying, Biological control (insects), Insect diseases, Insect pests, Neodiprion swainei, Pinus banksiana, Polyhedroses. French summary.

4759-69
DON'T TAKE LIGHTLY THESE BRINJAL BORERS.
V K Srivastava B P Khare
Indian Hort 12(2,JAN-MAR):34
1968 80 IN23
Carbamates, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, DDT, Dusting, Eggplant, Endrin, Euzophera perticella, Insecticides, Leucinodes orbonalis, Lindane, Pyralidae, Spraying.

4760-69
RESISTANCE OF LYCOPERSICON SPECIES TO THE CARMINE SPIDER MITE.
A K Stoner A C Centile
USDA Prod Res Rep (102):1-7
Oct 1968 A281.9 AG8
Biological control (insects), Crop varieties, Insect pests, Plant breeding, Plant injuries, Plant pest resistance, Tables (data), Tetranychus cinnabarinus, Tomatoes.

4761-69
THE CICADELLE EMPOASCA FLAVESCENS AND THE GRILL OF GRAPEVINES IN THE SOUTH-WEST OF FRANCE. (FR)
J Touzeau
Phytoma 20(200,JUL-AUG):31-35 REF
1968 464.8 P563
Carbaryl, Crop losses, Crop varieties, DDT, Empoasca flavescens, Formothion, Grape vineyards, Insect biology, Insect identification, Insect pests, Insecticides, Resistance, Zoogeography.

4762-69
PRUNING PRODUCES PERFECT, PEST-FREE PEACHES.
M Wilbur
Org Gard Farming 15(7):62-63
Jul 1968 57.8 OR32
Fertilizer application, Peaches, Plant pest resistance, Pruning. This article is about the authors personal experience

4763-69
IMPORTED AND INDIGENOUS NATURAL ENEMIES OF CITRUS COCCIDS AND APHIDS IN CYPRUS, AND AN ASSESSMENT OF THEIR POTENTIAL VALUE IN INTEGRATED CONTROL PROGRAMMES.
B J Wood
Entomophaga 8(1):67-82 REF
1963 421 EN835
Aonidiella aurantii, Aphididae, Aphytis lepidosaphes, Biological control (insects), Citrus, Coccidae, Dieldrin, Dusting, Formicidae, Insecticides, Integrated control (insects), Lepidosaphes beckii. French summary.

NEMATODES

4764-69
DOMESTIC QUARANTINE NOTICES. SOYBEAN CYST NEMATODE. QUARANTINE AND REGULATIONS.
R J Anderson
Fed Regist 34(6):303-305
09 Jan 1969 L1.451
Agricultural regulation, Heterodera glycines, Interstate commerce, Legislation, Plant nematodes, Plant quarantine, Soybeans.

4765-69
SEX LURE HOAX MAY PROVE MALE BEET WIREWORM'S UNDOING.
Anonymous
Holly Agr News 16(4,WINTER):27
1969 66.8 H72
Baits, Chemical control (pests), Lettuce, Limonius californicus, Plant injuries, Plant protection, Potatoes, Sex, Sugar beets.

4766-69
TESTS OF NEMATOCIDAL FUMIGANTS IN THE CONTROL OF THE NEMATODES OF BEETS (HETERODERA SCHACHTII SCHM. AND MELOIDOGYNE SPP.). (IT)
G C Bongiovanni
Notiz Mal Piante (SER 3)(3/4):155-175 REF
1967 464.8 N84
Chemical control (nematodes), Fumigants, Heterodera schachtii, Meloidogyne, Nematocides, Plant nematodes, Sugar beets, Testing. English summary.

4767-69
THE ROLE OF NEMATODES IN HORTICULTURE.
G S Grandison
Com Hort Floristry New Zeal 1(7): 193-196
Feb 1968 SB13.C59
Anatomy, Chemical control (nematodes), Crop rotation, Fallowing, Horticulture, Insect behavior, Nematocides, Nematodes, Parasitism, Plant diseases, Plant nematode resistance, Predaceous nematodes, Saprophytes, Symptomatology.

4768-69
NEMATODES ATTACK BANANAS.
D L Milne F A Kuhne
Farming So Afr 44(5):5,9
Aug 1968 24 SO842
Bananas, Helicotylenchus multicinctus, Meloidogyne javanica, Plant nematodes, Plant protection.

4769-69
FUMIGANTS AND SPECIFIC NEMATOCIDES IN THE CONTROL OF PHYTOPHAGOUS NEMATODES. (IT)
A Scoguamiglio N Giandomenico
Notiz Mal Piante (SER 3)(3/4):19-44 REF
1967 464.8 N84
Chemical control (nematodes), Fumigants, Nematocides, Plant nematodes, Soil fumigation. English summary.

WEEDS

4770-69
BLACKBERRY CONTROL NEAR ORCHARDS AND VEGETABLE GARDENS.
R Amor
Victorian Hort Dig 11(2,MAY-JUL):16
1967 80 V662
Amitrole, Blackberries, Chemical control (weeds), Esters, Herbicides, Orchards, Plant injuries, T, 2,4,5-, Tordon, Vegetables.

4771-69
STUDIES ON CHEMICAL WEED CONTROL WITH FODDER KALE. (GE)
R Bassler
Albrecht-Thaer-Arch 12(3):295-306 REF
1968 18 AL1
Chemical control (weeds), Desmetryne, Feed, Herbicides, Kale, Prometryne, Propazine, Simazine. English and Russian summaries. prometryne was the most effective herbicide.

4772-69
TEST RESULTS WITH PATORAN. (GE)
S Behrendt
Kartofelbau 19(4):102
Apr 1968 75.8 K145
Bromophenyl)-1-methoxy-1-methylurea, 3-(p-, Centaurea cyanus, Chemical control (weeds), Crop rotation, Herbicides, Potatoes.

4773-69
POSSIBILITIES OF LIMITING TILLAGE MEASURES IN POTATO CULTURES WHEN USING HERBICIDES. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
H Domanska
31-41
1966 SB951.U8
Ametryne, Herbicides, Plant nutrition, Potatoes, Tables (data), Tillage. Czech and Russian summaries. tests of many herbicides against 10 common weeds.

4774-69
COMPARISON OF VARIOUS METHODS FOR THE DETERMINATION OF THE HERBICIDAL ACTION OF HERBICIDE PREPARATIONS AGAINST ANNUAL WEEDS IN SUGARBEETS AND POTATOES. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
G Feyerabend W Hamann
1-9
1966 SB951.U8
Annual plants, Chemical control (weeds), Chenopodium album, Evaluation, Herbicides, Matricaria chamomilla, Methodology, Potatoes, Sugar beets, Weeds. Czech and Russian summaries.

4775-69
CHEMICAL WEED CONTROL AND DEFOLIATION IN POTATO FIELDS. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
A Gimesi
27-30
1966 SB951.U8

Aerial spraying, Chemical control (weeds), Costs, Defoliation, Mercapto compounds, Monolinuron, Potatoes, Triazine. Czech and Russian summaries.

4776-69
SOME OBSERVATIONS ON ECOLOGICAL, PHYSIOLOGICAL AND BIOCHEMICAL ASPECTS OF WEED CONTROL.
R Gopal A Mishra P A Chandhokar T K Chakraborty M M Hosmani
Indian Agr Res Inst J Post-Grad School 5(1):67-71
Jun 1967 22 IN2262
Ecology, Environment, Plant biochemistry, Plant physiology, Soils, Weed control.

4777-69
RESPONSE OF MIXED CROP OF WHEAT AND RAPE TO THREE CHLOROPHENOXY HERBICIDES.
O P Gupta V S Mani
Indian J Agron 13(2):125-127
Jun 1968 22 IN235
Chemical control (weeds), Dichlorophenoxy)butyric acid, 4-(2,4-, Herbicides, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Phenoxy acid compounds, Plant physiology, Rape, Sesone, Weed control, Wheat.

4778-69
FINESSE IN WEED CONTROL.
C F Kerr
Midwest Reg Turf Conf Proc 1968 MEETING:33-34
04 Mar 1968 60.19 M58
D, 2,4-, Dicamba, Digitaria, Herbicides, Mecoprop, Phenoxy acid compounds, Poa annua, Tricalcium arsenate, Weed control.

4779-69
WEED CONTROL STUDIES IN STRAWBERRIES.
A H Lange H Agamalian W A Humphrey V Voth
Calif Agr 21(12):8-9
Dec 1967 100 C12CAG
Chemical control (weeds), Chlorinated hydrocarbons, Dacthal, Diphenamid, Herbicides, Research, Strawberries, Weed control.

4780-69
STUDIES OF PHYTOTOXICITY IN THE USE OF HERBICIDES FOR CONTROLLING ANNUAL WEEDS IN ALMOND ORCHARDS.
Lange C Elmore D Bayer E Stilwell L Buschmann N Ross
Calif Agr 21(6):8-10
Jun 1967 100 C12CAG
Almonds, Chemical control (weeds), D, 2,4-, Dinoseb, Diuron, Herbicides, Nitrated phenols, Pentachlorophenol, Phenoxy acid compounds, Phytotoxicity, Weeds.

4781-69
WEED CONTROL IN POTATO CULTURES WITHOUT ADVERSE EFFECTS ON THE POTATO QUALITY. (GE)
C Patzold
Kartofelbau 19(4):104-106
Apr 1968 75.8 K145
Chemical control (weeds), Chlorophenyl)-1-methoxy-1-methyl-urea, 3-(p-, Cultural control (weeds), Potatoes, Simazine, Weed control.

4782-69
WEEDS AND THEIR CONTROL.
S V Rangaswamy D S Rao
Lal-Baugh 13(2,APR-JUN):18-24
1967 80 L15
Biological control (weeds), Chemical control (weeds), Crop rotation, Cultural control (weeds), D, 2,4-, Herbicides, Labor productivity, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds, Soil sterilization, Trichloroacetic acid, Weed control. There is a list of the common weeds found in india

4783-69
RESULTS OF TESTS WITH A NEW CORN CULTIVATION TECHNOLOGY, USING A MINIMUM OF WORK EFFORT AND THE EFFECTIVENESS OF NEW HERBICIDES UNDER THE CONDITIONS PREVAILING IN THE SOCIALIST RUMANIAN REPUBLIC. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (RUS)
D N Sharpe
49-61
1966 SB951.U8
Atrazine, Corn, Crop rotation, Economic plants, Herbicides, Methodology, Tables (data), Tillage. German and Czech summaries.

4784-69
COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE. PRAGUE, CZECHOSLOVAKIA, 21-24 JUNE 1966. (CZ)
J Zakopal
192P PRAGUE, USTREDNI VYZKUMNY USTAV ROSTLINNE VYROBY
1966 SB951.U8
Conferences, Herbicides, Reports. German, Russian or Czech summaries.

4785-69
STUDY OF THE SELECTIVITY OF HERBICIDES FOR SUGARBEETS, USING LABORATORY, GREENHOUSE AND PHYSIOLOGICAL METHODS. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
J Zemanek
19-25
1966 SB951.U8
Brassica, Catalase, Chemical control (weeds), Herbicides, Lenacil, Methodology, Peroxidases, Phytotoxicity, Plant respiration, Pyrazon, Sugar beets. Czech and Russian summaries.

OTHER PESTS

4786-69
BIOLOGICAL CONTROL OF SNAILS EXERTED BY EUGLANDINA ROSEA (FERUSSAC) IN BERMUDA.
F J Simmonds I W Hughes
Entomophaga 8(3):219-222 7AP
1963 421 EN835
Biological control (pests), Euglandina rosea, Flowers, Population, Snails, Vegetables. French summary.

LIVESTOCK PROTECTION

4787-69
THE NOURISHMENT OF MILK CALVES IS ESSENTIAL FOR THE FUTURE OF THE PRODUCT. (FR)
J M de Proce
Corcoricas Monde (JUL-AUG):19-20
1968 47.8 C64
Agricultural outlook, Animal nutrition, Antibiotics, Buttermilk, Calves, Colostrum, Dairy barns, Milk, Minerals, Skim milk, Vitamins.

4788-69
STUDIES ON ENZYME SYNTHESIS OF CEREBROSIDE SULPHATE FROM 3'-PHOSPHOADENOSINE-5'-PHOSPHOSULPHATE.
A S Balasubramanian B K Bachhawat
Indian J Biochem 2(4):212-216 REF
Dec 1965 QP501.I48
Biochemistry, Brain, Cerebrosides, Enzymes, Phosphoadenosine-5'-phosphosulphate, 3'-, Research, Sheep, Sulfates.

4789-69
THE INDIVIDUAL. (FR)
J D'Arces
Corcoricas Monde (JUL-AUG):16-18
1968 47.8 C64
Agricultural productivity, Animal breeding, Animal diseases, Animal morphology, Animal physiology, Economic conditions.

4790-69
OUTLINE OF SYRIAN PARASITOLOGY.
W Eichler
Angew Parasitol 9(4):216-225 REF
Dec 1968 436.8 AN4
Catalogs, Helminthiasis, Host relationships, Medical entomology, Parasites, Parasitology, Reviews.

4791-69
RELEASE OF SIALIC ACID FROM CASEINS OF COW AND BUFFALO MILK BY COW AND BUFFALO RENNETS.
S K Gupta N C Ganguli
Indian J Biochem 2(4):253-256 REF
Dec 1965 QP501.I48
Biochemistry, Buffaloes, Casein, Dairy cattle, Milk, Sialic acids.

4792-69
OXIDATIVE ENZYMES IN ESCHERICHIA COLI PLASMA MEMBRANE.
A M Kidwai C R K Murti
Indian J Biochem 2(4):217-219 REF
Dec 1965 QP501.I48
Biochemistry, Enzymes, Escherichia coli, Plasma membrane.

DISEASES

4793-69
THE REAPPEARANCE OF RABIES IN FRANCE. FIRST CASE IN A FOX IN MOSELLE. (FR)
P Atanasiu A Gamet P Graviere M Le Guilloux J C Guillon
Acad Vet France Bull 41(4):161-163
Apr 1968 41.9 R24
Foxes, Rabies, Sanitation, Virus diseases (animals).

4794-69
STUDY OF THE MULTIPLICATION, IN A UNIQUE CLONE CYCLE, OF CLASSIC SWINE FEVER VIRUS IN AN IMMUNOFLUORESCENT MEDIUM. (FR)
J M Aynaud
Acad Sci Compt Rend Ser D Sci Nat 266(5 1ST SEMESTER):535-537
29 Jan 1968 505 P21
Hog cholera virus, Immunofluorescence, Reproduction, Tissue culture, Virus diseases (animals), Viruses.

4795-69
SENSITIVENESS OF E. COLI ISOLATED FROM THE INTESTINES OF BROILERS IN THE TERRAIN TO CHLORTETRACYCLIN, STREPTOMYCIN AND FURAZOLIDON IN 1966. (CZ)
S Bartos J Lebduska V Horakova
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(1):63-68 REF
Jan 1968 41.9 C333
Allergies, Chicken types (meat), Chlortetracycline, Escherichia coli, Feed concentrates, Feed toxicity, Furazolidone, Intestines, Streptomycin. English, German, and Russian summaries.

4796-69
INTERMEDIATE ENERGY METABOLISM OF LEPTOSPIRA.
J B Baseman C D Cox
J Bacteriol 97(3):992-1000 REF
Mar 1969 448.3 J82
Biochemistry, Enzymes, Fatty acids, Leptospira, Metabolism.

4797-69
TERMINAL ELECTRON TRANSPORT IN LEPTOSPIRA.
J B Baseman C D Cox
J Bacteriol 97(3):1001-1004 REF
Mar 1969 448.3 J82
Biochemistry, Cytochromes, Electron transport, Leptospira.

4798-69
RESPIRATORY DISEASE IN THE PIG. II.
T B Blandford
State Vet J 23(68):114-123
May 1968 SF601.S8
Bacterial diseases (animals), Diagnosis, Epidemiology, Helminthiasis, Inclusion-body rhinitis virus, Livestock diseases, Pneumonia, Pseudorabies, Respiratory diseases, Swine, Swine influenza, Virus diseases (animals).

4799-69
FLUORESCENT ANTIBODY TECHNIQUES FOR VESICULAR STOMATITIS VIRUS.
C L Brown E W Jenney
U S Agr Res Serv ARS- (70):33-35
Dec 1968 A41.9 R315AR
Complement fixation, Diagnosis, Fluorescent antibody technic, Methodology, Vesicular stomatitis virus, Virology, Virus diseases (animals).

4800-69
EXPERIMENTAL TRANSMISSION OF PLAGUE BY SYNOPSYLLUS FONQUERNIEI OF MADAGASCAR. (FR)
E R Brygoo A Dodin
Acad Sci Compt Rend Ser D Sci Nat 264(4, 1ST SEMESTER):681-682
23 Jan 1967 505 P21
Insect vectors, Rats, Xenopsylla cheopsis.

4801-69
REGULATION OF BRANCHED-CHAIN AMINO ACID BIOSYNTHESIS IN SALMONELLA TYPHIMURIUM: ISOLATION OF REGULATORY MUTANTS.
J M Calvo M Freundlich H E Umbarger
J Bacteriol 97(3):1272-1282 REF
Mar 1969 448.3 J82
Amino acids, Biochemistry, Genetics, Leucine, Metabolism, Mutations, Salmonella typhimurium, Synthesis.

4802-69
VIRULENCE, ADSORBABILITY, AND ANTIGENICITY OF FOOT-AND-MOUTH DISEASE VIRUS SELECTED BY ADSORPTION WITH HOMOGENIZED MOUSE KIDNEY.
C H Campbell
Arch Gesamte Virusforsch 26(3):238-248 REF
Feb 1969 448.3 AR23
Cattle, Foot-and-mouth disease virus, Immunogenicity, Mice, Serological tests.

4803-69
THE FOCAL DISTRIBUTION OF LESIONS OF PORCINE HYPERNATREMIC EOSINOPHILIC MENINGO-ENCEPHALITIS FOR DIAGNOSTIC PURPOSES.
D R Cassidy H A Nelson
U S Agr Res Serv ARS- (70):52-53
Dec 1968 A41.9 R315AR
Diagnosis, Eosinophils, Livestock diseases, Meningo-encephalitis, Sodium, Swine.

4804-69
STUDIES OF SERUM ENZYMES IN SWINE INFECTED BY TWO STRAINS OF HOG CHOLERA VIRUS.
D R Cassidy S A Seberg
U S Agr Res Serv ARS- (70):18-22
Dec 1968 A41.9 R315AR
Acid phosphatase, Alkaline phosphatase, Blood analysis, Enzymes, Hog cholera virus, Lactate dehydrogenase, Research, Serum, Swine, Virology, Virus diseases (animals).

4805-69
CHROMOSOME REPLICATION IN SALMONELLA TYPHIMURIUM.
H Chan K G Lark
J Bacteriol 97(27):848-860 REF
Feb 1969 448.3 J82
Bacterial diseases (animals), Chemicals, Chromosomes, Deoxyribonucleic acid, Genetics, Radioactive tracers, Salmonella typhimurium.

4806-69
RESEARCH ON THE ONCOGENIC CONSTITUENTS OF THREE ZONES OF HEMAGGLUTINATING ACTIVITY, OBTAINED BY CENTRIFUGATION OF POLYOMA VIRUS PURIFIED IN DENSITY GRADIENTS WITH CESIUM CHLORIDE. (FR)
R Cramer P Demerseman P Atanasiu
Acad Sci Compt Rend Ser D Sci Nat 265(4, 2ND SEMESTER):378-381 REF
24 Jul 1967 505 P21
Centrifugation, Hemagglutination, Oncogenic viruses, Polyoma virus, Virus diseases (animals).

4807-69
THERMORESISTANT CLOSTRIDIUM PERFRINGENS OF THE A TYPE IN POULTRY. (CZ
Z Duben
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(1):47-53 REF
Jan 1968 41.9 C333
Biochemistry, Clostridium perfringens bacterin, Diarrhea, Epidemiology, Feed toxicity, Gastrointestinal system, Poultry, Poultry diseases, Resistance, Thermotherapy. English, Russian, and German summaries

4808-69
PROTECTIVE ACTION OF THE ENCEPHALITOGEN AND OTHER BASIC PROTEINS IN EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS.
E R Einstein J Csejtey W J Davis H C Rauch
5(6):567-575 REF
Nov 1968
Animal diseases, Antigens, Drug therapy, Encephalomyelitis, Freunds adjuvant, Guinea pigs, Histology, Proteins.

4809-69
THE PHYSIO-PATHOLOGY OF CHICKEN CAECAL COCCIDIOSIS: EXPERIMENTAL STUDY OF IMMUNOGENESIS, ACTION OF SPECIFIC ANTILYMPHOCYTIC SERA. (FR)
J Euzeby C Garcin N Grosjean
Acad Sci Compt Rend Ser D Sci Nat 268(12, 1ST SEMESTER):1616-1618
24 Mar 1969 505 P21
Antiserum, Caecal coccidiosis, Chickens, Eimeria tenella, Immunogenicity, Pathology.

4810-69
PRELIMINARY STUDY OF AN INTESTINAL VIRUS ISOLATED FROM A LESION IN BALAND-POSTHITE CATTLE. (FR)
P Faye A Charton A Berkaloff C Bernard Cl Le Layec
Acad Vet France Bull 41(4):155-159
04 Apr 1968 41.9 R24
Cattle, Intestines, Viruses.

4811-69
TOXOPLASMA GONDII: FECAL FORMS SEPARATED FROM EGGS OF THE NEMATODE TOXOCARA CATI.
J K Frenkel J P Dubey N L Miller
Science 164(3878):432-433
25 Apr 1969 470 SCI2
Animal diseases, Cats, Disease transmission, Feces, Laboratory animals, Mice, Protozoa, Toxocara cati, Toxoplasma gondii, Toxoplasmosis.

4812-69
THE PRESENCE OF PARTICLES WITH THE APPEARANCE OF NUCLEOCAPSIDS ASSOCIATED WITH MITOCHRONDRITES IN THE CELLS OF A HAMSTER INFECTED WITH ROUS VIRUS. (FR)
L Gazzolo G De-The P Vigier P S Sarma
Acad Sci Compt Rend Ser D Sci Nat 268(12, 1ST SEMESTER):1668-1670 REF
24 Mar 1969 505 P21
Cytology, Electron microscopy, Hamsters, Mitochondria, Rous sarcoma virus.

4813-69
ULTRASTRUCTURE OF HOMOGENEOUS BODIES AND CELLULAR BODIES DURING THE COURSE OF RICKETTSIAL INFECTIONS. (FR)
P Giroud J Jadin J Creemers J M Jadin
Acad Sci Compt Rend Ser D Sci Nat 266(4, 1ST SEMESTER):428-429
22 Jan 1968 505 P21
Cytology, Electron microscopy, Immunity, Rabbits, Rickettsia prowazeki, Rickettsial diseases, Ultrastructure.

4814-69
INHIBITION OF THE MULTIPLICATION OF FOOT-AND-MOUTH VIRUS IN AN ADULT MOUSE WHICH HAD FIRST BEEN TREATED WITH THE ADJUVANT OF FREUDE . (FR)
D Gorhe J M Aynaud A Paraf
Acad Sci Compt Rend Ser D Sci Nat 264(23, 1ST SEMESTER):2698-2701
05 Jun 1967 505 P21
Drug therapy, Foot-and-mouth disease virus, Mice, Reproduction, Viruses.

4815-69
SIDEROLEUCOCYTES AS A DIAGNOSTIC AID IN EQUINE INFECTIOUS ANAEMIA.
C K Granzien L G Newton
Australian Vet J 44(9):406-409 REF
Sep 1968 41.8 AU72
Animal diseases, Blood analysis, Diagnosis, Equine infectious anemia, Horses, Iron, Leukocytes.

4816-69
SUDDEN DEATH IN FEEDER PIGS.
F J Harden
Hog Prod 4(7):10-11
Jul 1968 46.8 H675
Animal diseases, Animal histology, Baby pigs, Death, Erysipelas bacterins, Gastric ulcers, Gastroenteritis, Heart diseases, Morus, Swine, Symptomatology, Temperature.

4817-69
QUANTITATIVE STUDIES ON THE NEUTRALIZATION REACTION BETWEEN AFRICAN HORSE-SICKNESS VIRUS AND ANTISERUM.
A Hazrati Y Ozawa
Arch Gesamte Virusforsch 25(1):83-92 REF
Nov 1968 448.3 AR23
African horse sickness, Antibodies, Antiserum, Immunology, Mice, Virus diseases (animals), Virus neutralization, Virus serology.

4818-69
2-DEOXYRIBOSE GENE-ENZYME COMPLEX IN SALMONELLA TYPHIMURIUM: REGULATION OF PHOSPHODEOXYRIBOMUTASE.
P A Hoffee B C Robertson
J Bacteriol 97(3):1386-1396 REF
Mar 1969 448.3 J82
Biochemistry, Deoxyribonucleic acid, Enzymes, Genetics, Salmonella typhimurium.

4819-69
ASSOCIATION OF INCREASED RECIPIENT ABILITY FOR R FACTORS AND REDUCED VIRULENCE AMONG VARIANTS OF SALMONELLA CHOLERAESUIS VAR. KUNZENDORF.
H Jarolmen G Kemp
J Bacteriol 97(2):962-963
Feb 1969 448.3 J82
Escherichia coli, Immunity, Immunogenicity, Physiology, Salmonella choleraesuis.

4820-69
STUDIES ON THE TREATMENT AND PROPHYLAXIS OF SALMONELLA PULLORUM INFECTION IN CHICKS WITH CHLOROMYCETIN.
J Kalich G M El-Bahay P Eckes
J Vet Sci U A R 4(2):195-205 REF

1967 SF604.J6
Chicks, Chloramphenicol, Drug therapy, Poultry diseases, Salmonella pullorum. Arabic summary.

4821-69
OBSERVATIONS ON THE PRACTICAL USE OF THE RAPID MASTITIS TEST.
E A Kernohan
Aust J Dairy Technol 23(3):129-130
Sep 1968 44.8 AU74
Dairy cattle, Diagnosis, Livestock diseases, Mastitis, Milk.

4822-69
SALMONELLA ABONY-SALMONELLA TYPHIMURIUM RECOMBINANT NONVIRULENT FOR THE MOUSE.
V Krishnapillai K Karthigasu
J Bacteriol 97(3):1343-1351 REF
Mar 1969 448.3 J82
Genetics, Mice, Salmonella, Salmonella typhimurium, Virulence.

4823-69
THEORY OF CLASSIFICATION OF THE DENSONUCLEOSE VIRUSES , BASED ON THE STUDY OF MOLECULAR STRUCTURES AND PHYSIOCHEMICAL PROPERTIES. (FR)
E Kurstak J R Cote
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):616-619 REF
20 Jan 1969 505 P21
Biochemistry, Electron microscopy, Morphology, Papovaviruses, Taxonomy, Virus diseases (animals).

4824-69
THE MODE OF FORMATION OF INTRACYTOPLASMIC STRUCTURES IN TUMORS INDUCED BY VIRUSES OF THE AVIAN SARCOMA LEUCOSIS GROUP.
Chr Landschutz
Experientia 24(12):1255-1256 REF
15 Dec 1968 475 EX7
Avian leukosis complex viruses, Biochemistry, Chickens, Electron microscopy, Immunity, Neoplasms.

4825-69
AXIS CYLINDER DEGENERATION ASSOCIATED WITH RYEGRASS STAGGERS IN SHEEP AND CATTLE.
R W Mason
Australian Vet J 44(9):428
Sep 1968 41.8 AU72
Cattle, Cells, Coenurosis, Livestock diseases, Lolium, Nerves, Parasitism, Sheep.

4826-69
CHARACTERIZATION OF A SMALL PORCINE DNA VIRUS.
A Mayr P A Bachmann G Siegl H Mahnel B E Sheffy
Arch Gesamte Virusforsch 25(1):38-51 REF
Nov 1968 448.3 AR23
Cytopathology, Dna viruses, Electron microscopy, Swine, Virus diseases (animals).

4827-69
THE EPIZOOTIOLOGICAL IMPORTANCE OF FOOT-AND-MOUTH DISEASE CARRIERS. II. THE CARRIER STATUS OF CATTLE EXPOSED TO FOOT-AND-MOUTH DISEASE FOLLOWING VACCINATION WITH AN OIL ADJUVANT INACTIVATED VIRUS VACCINE.
J W McVicar P Sutmoller
Arch Gesamte Virusforsch 26(3):217-224 REF
Feb 1969 448.3 AR23
Animal vectors, Cattle, Epizootic diseases, Foot-and-mouth disease, Vaccines, Virus diseases (animals).

4828-69
COSTING ACUTE MAREKS DISEASE.
K C Meldrum
State Vet J 23(68):148-151
May 1968 SF601.S8
Avian lymphomatosis, Chickens, Diagnosis, Economics, Epidemiology, Livestock diseases, Mortality.

4829-69
PATHOLOGICAL STUDIES ON PSEUDOTUBERCULOSIS RODENTIUM. III. SPONTANEOUS SWINE CASES. (JA)
M Morita M Nakamatsu M Goto
Jap J Vet Sci 30(4):233-239
Aug 1968 41.8 J27
Diagnosis, Epidemiology, Livestock diseases, Microscopy, Parasitism, Pasteurella pseudotuberculosis, Pseudotuberculosis, Swine. English summary.

4830-69
CHOLERESIS IN SHEEP.
P H Mortimer T A Stanbridge
Vet Rec 83(26):683-684
28 Dec 1968 41.8 V641
Bile, Drugs, Liver, Livestock diseases, Methoxynaphthalene-(1))-4-oxobutyric acid, 4-(4-, Secretion, Sheep.

4831-69
HORMONAL EFFECT ON CERTAIN GLYCOLYTIC ENZYMES OF RAT MAMMARY GLAND.
R Narayanan N C Ganguli
Indian J Biochem 2(4):240-242 REF
Dec 1965 QP501.I48
Animal physiology, Biochemistry, Enzymes, Glycolysis, Hormones, Mammary glands, Rats.

4832-69
ISOLATION OF CONJUGATION-CONSTITUTIVE MUTANTS OF COLICIN FACTOR IB.
M Ohki H Ozeki
Z Vererbungslehre 103(1):37-41 REF
27 Nov 1968 442.8 Z34
Antibiotics, Mutations, Salmonella, Sex, Synthesis.

4833-69
OPSONINS EXAMINATION IN THE MOUSE AFTER ENDOTOXIN-INDUCED RESISTANCE TO INFECTION. (FR)
M Parant
Inst Pasteur Ann 115(2):264-278 REF
Aug 1968 448.3 AN75
Antibodies, Endotoxins, Immunity, Klebsiella pneumoniae, Mice, Opsonins. English summary.

4834-69
EFFECT OF PH ON THE IMMUNOGENICITY OF MYCOPLASMA PNEUMONIAE.
J D Pollack N L Somerson L B Senterfit
J Bacteriol 97(2):612-619 REF
Feb 1969 448.3 J82
Hydrogen-ion concentration, Immunochemistry, Immunogenicity, Mycoplasma pneumoniae.

4835-69
PROTECTION AGAINST RINDERPEST CONFERRED TO CATTLE BY AN INACTIVATED VIRUS ADAPTED TO CATTLE CELLS. (FR)
A Provost C Borredon Y Maurice
Acad Sci Compt Rend Ser D Sci Nat 264(25, 1ST SEMESTER):2961-2964
19 Jun 1967 505 P21
Cattle, Immunization, Rinderpest virus, Vaccines, Virus neutralization.

4836-69
EXPERIENCES ABOUT THE TOLERANCE AND USE OF STAGLOBAN IN THE DOG. (GE)
F Reinhard K Bonath
Blauen H Tierarzt (38):14-17
Oct 1968 41.9 B61
Animal diseases, Canine distemper, Dogs, Drugs, Gamma globulins, Immunization, Infectious canine hepatitis, Leptospirosis.

4837-69
COMPETITIVE DEVELOPMENT OF ENZYMATIC ACTIVITY OF TRANSCRIPTASE AND REPLICASE IN THE COURSE OF A VIRAL DISEASE IN CATTLE. (FR)
M Sakouhi-Cousin J Choay L Dhennin M Thely L Dhennin
Acad Sci Compt Rend Ser D Sci Nat 264(10, 1ST SEMESTER):1353-1355
06 Mar 1967 505 P21
Biochemistry, Cattle, Enzymes, Foot-and-mouth disease virus, Physiology, Virus diseases (animals).

4838-69
IMMUNOCHEMICAL CHARACTERIZATION OF SHEEP PLASMA GLYCOPROTEIN.
T S A Samy H G M Raj N R Moudgal H R Cama
Indian J Biochem 2(4):250-252 REF
Dec 1965 QP501.I48
Blood, Chemistry, Glycoproteins, Immunity, Sheep.

4839-69
THE EFFECTS OF PANTOTHENIC ACID, PANTOYLTAURINE, SALICYLATE AND RELATED COMPOUNDS ON THE IN VITRO AND IN VIVO GROWTH OF TRYPANOSOMA LEWISI.
G Sanchez D G Dusanic
Compar Biochem Physiol 27(3):647-658 REF
Dec 1968 444.8 C73
Ceratophyllus fasciatus, In vivo, Pantothenate, Rats, Tissue culture, Trypanosoma lewisi.

4840-69
STAPHYLOCOCCAL INTOXICATION OF YOUNG SUCKLING WHELPS. (GE)
W Seffner
Monatsh Vet 23(2):59-61
15 Jan 1968 41.8 M742
Animal diseases, Blood, Dogs, Gastrointestinal system, Histology, Milk, Pneumonia, Staphylococcus aureus, Toxins. English and Russian summaries.

4841-69
TOXOPLASMA GONDII: TRANSMISSION THROUGH FECES IN ABSENCE OF TOXOCARA CATI EGGS.
H G Sheffield M L Melton
Science 164(3878):431-432
25 Apr 1969 470 SCI2
Animal diseases, Cats, Disease transmission, Feces, Laboratory animals, Mice, Nematodes, Protozoa, Temperature, Toxocara cati, Toxoplasma gondii, Toxoplasmosis.

4842-69
INCIDENCE OF HYDATOSIS IN LIVESTOCK IN LAHORE.
S A Sheikh M Z Hussain
Pakistan J Sci 19(516,SEP-DEC):239-242 REF
1967 475 P172
Antigens, Diagnosis, Echinococcosis, Echinococcus granulosus, Epidemiology, Livestock diseases.

4843-69
THERAPEUTIC EFFECT OF SDDS (2-SULFAMOYL-4,4'-DIAMINODIPHENYL SULFONE) ON EXPERIMENTAL TOXOPLASMOSIS.
K Shimizu T Shirahata Y Inami
Jap J Vet Sci 30(4):183-195
Aug 1968 41.8 J27
Animal diseases, Drug therapy, Laboratory animals, Mice, Sulfamoyl-4,4'-diaminodiphenyl sulfone, 2-, Swine, Toxoplasmosis. Japanese summary

4844-69
COLD-SENSITIVE MUTATIONS IN SALMONELLA TYPHIMURIUM WHICH AFFECT RIBOSOME SYNTHESIS.
P C Tai D P Kessler J Ingraham
J Bacteriol 97(3):1298-1304 REF
Mar 1969 448.3 J82
Biochemistry, Genetics, Mutations, Protein synthesis, Ribosomes, Salmonella typhimurium, Temperature.

4845-69
THE PALE MUSCLE PROBLEM IN PIGS.
D C Thurley
State Vet J 23(68):152-155
May 1968 SF601.S8

Biochemistry, Color, Diagnosis, Livestock diseases, Meat, Muscles, Proteins, Swine, Temperature.

4846-69
CONTROL OF BOVINE TUBERCULOSIS AND LIST OF OFFICIALLY CERTIFIED HERDS.
A Van Heerden
Farming So Afr 44(5):33-39,43
Aug 1968 24 SO842
Cattle, Cattle records, Infectious diseases, Livestock diseases, Tuberculosis.

4847-69
THE ROLE OF INTERFERON IN THE INTERFERENCE PHENOMENON BETWEEN VACCINIA VIRUS AND FIXED RABIES VIRUS. (FR)
J Vieuchange
Acad Sci Compt Rend Ser D Sci Nat 264(2, 1ST SEMESTER):426-428
09 Jan 1967 505 P21
Immunity, Interference phenomenon, Interferon, Rabies virus, Vaccinia virus.

4848-69
PERSISTANCE OF THE GENOME OF THE ROUS VIRUS IN HAMSTER CELLS CHANGED IN VITRO, AND THE ACTION OF INACTIVATED SENDAI VIRUS ON ITS TRANSMISSION TO CHICK CELLS. (FR)
P Vigier
Acad Sci Compt Rend Ser D Sci Nat 264(2, 1ST SEMESTER):422-425
09 Jan 1967 505 P21
Animal disease transmission, Chickens, Hamsters, Parainfluenza-1 virus, Rous sarcoma virus, Tissue culture.

4849-69
PEST-MANAGEMENT CONCEPTS AND CONTROL OF TICK PARALYSIS IN BRITISH COLUMBIA.
P R Wilkinson
Entomol Soc Brit Columbia Proc 65:3-9 REF
01 Aug 1968 420 B77
Dermacentor andersoni, Human diseases, Immunology, Insect control, Insecticides, Livestock diseases, Methodology, Pest control, Tick paralysis.

4850-69
SERUM ANTIBODY TO SALMONELLA FLAGELLAR ANTIGENS. I. METHODS OF ANTIBODY ASSAY.
R Wistar
Australian J Exp Biol Med Sci 46(PT 6):769-777 REF
Dec 1968 442.8 AU7
Agglutination, Antibodies, Antigens, Biological assay, Methodology, Precipitin test, Radioisotopes, Salmonella.

ARTHROPODS

4851-69
CONTRIBUTIONS TO THE (DIPTERA, SIMULIIDAE) FAUNA OF AUSTRIA. III. THE FAUNA OF THE VALLEY OF THE YBBS.
R Supperer E Rutzer
Verhandl Zool-bot Gesell Wien 107:25-27
1967 410.9 V67
Animals, Breeding, Diptera, Insect pests, Prosimulium hirtipes, Simuliidae.

4852-69
THE MYIASIS FLY OF THE AFRICAN AARDVARK (ORYCTEROPUS AFER (PALLAS)). (GE)
F Zumpt
Zool Beitr 13(2-3):463-470
1967 410 Z753
Animal diseases, Calliphoridae, Insect morphology, Myiasis. English abstract

PARASITES

4853-69
THIABENDAZOLE AS A BROAD-SPECTRUM ANTHELMINTIC. (ABSTRACT).
E Asshauer
Excerpta Med Pharm Toxicol 21(11):549
Nov 1968 241.64 EX23
Animal diseases, Anthelmintics, Nematodes, Parasitism, Thiazolyl)-benzimidizole, 2-(4-, Trichinosis. From Munch. Med. Wschr., 1968, 110/21, (1327-1329).

4854-69
GENERAL METHOD FOR THE CULTURE OF HELMINTHS IN ANAEROBIC CONDITIONS. (FR)
J C Bazin F Lancastre
Acad Sci Compt Rend Ser D Sci Nat 264(25,.1ST SEMESTER):2907-2908
19 Jun 1967 505 P21
Anaerobes, Culture media, Methodology, Schistosoma, Taenia pisiformis, Trichinella spiralis.

4855-69
EXPERIMENTAL INFECTION OF LABORATORY ANIMALS WITH ASCARIS SUUM. (GE)
R Buchwalder
Angew Parasitol 9(4):203-211 REF
Dec 1968 436.8 AN4
Ascaris lumbricoides suum, Hamsters, Nematode infestation, Rabbits. English and Russian abstracts

4856-69
PREVENT WORMS TO INCREASE SHEEP PROFITS.
D L Ferguson E C Howe
Nebr Univ Ext Ec (1905):12P
1968 275.29 N272EX
Chemical control (nematodes), Diagnosis, Economics, Nematodes, Parasitism, Profits, Sheep.

4857-69
LARVAL DEVELOPMENT OF A NEMATODE PARASITE OF THE DOG CIRCULATORY SYSTEM IN DULCAQUICOLES MOLLUSKS. (FR)
J Guilhon A De Gaalon
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):612-615
20 Jan 1969 505 P21
Development, Dogs, Larvae, Parasitic nematodes, Snails.

4858-69
HOST-PARASITE RELATIONSHIP. 1. STUDIES ON THE PRODUCTIVITY OF SHEEP AS AFFECTED BY HAEMONCHOSIS.
M Z Hussain M Akram
Pakistan J Sci 19(516,SEP-NOV):247-251 REF
1967 475 P172
Animal nutrition, Gastrointestinal system, Haemonchosis, Haemonchus contortus, Parasitism, Productivity, Sheep.

4859-69
OBLIGATORY AND ADDITIONAL HOSTS OF HELMINTHS. (GE)
K Odenine
Angew Parasitol 9(4):196-203
Dec 1968 436.8 AN4
Ecology, Helminthiasis, Host relationships, Life cycle, Parasitism.

4860-69
EVALUATION OF THE ANTHELMINTIC ACTIVITY OF THIABENDAZOLE IN MAN. (ABSTRACT).
H H Salem Z G Hayatee A M Awaness G Al-Allaf
Excerpta Med Pharm Toxicol 21(11):549
Nov 1968 241.64 EX23
Ancylostoma duodenale, Anthelmintics, Ascaris lumbricoides, Enterobius vermicularis, Human diseases, Hymenolepsis, Parasitism, Thiazolyl)-benzimidizole, 2-(4-, Trichuris. From Journal of Tropical Medicine and Hygiene:1968, 71/1 (11-17).

4861-69
NYMPHAL STAGE OF LINGUATULA SERRATA FOUND IN MESENTERIC LYMPH NODE OF A BOVINE.
K C Sherman H A McDaniel
U S Agr Res Serv ARS- (70):45-46
Dec 1968 A41.9 R315AR
Animal histology, Cattle, Diagnosis, Glands (animals), Histopathology, Larvae, Linguatula serrata, Lymph, Parasitism.

4862-69
ISOLATION OF A SPECIFIC ANTIGEN OF THE LARGE LIVER FLUKE (FASCIOLA HEPATICA L.). (FR)
R Tailliez R Mangalo S Korach
Acad Sci Compt Rend Ser D Sci Nat 265(5, 2ND SEMESTER):466-469
31 Jul 1967 505 P21
Antigens, Fasciola hepatica, Immunochemistry.

COMMODITY PROTECTION

4863-69
PROBLEMS WITH SCALD INHIBITORS.
Wright
Victorian Hort Dig 12(4,NOV-JAN):27-28
1969 80 V662
Apples, DPA, Oils, Plant protection, Scald, Storage, Temperature.

STORAGE DISEASES

4864-69
INSECT PATHOGENS AND MICROBIAL CONTROL OF INSECTS IN STORED PRODUCTS. I. TEST WITH BACILLUS THURINGIENSIS BERLINER AGAINST MOTHS.
H D Burges
Entomophaga Mem Hors Ser (2):323-327
1964 421 EN835M
Anagasta kuehniella, Bacillus thuringiensis, Biological control (insects), Cadra cautella, Dosage, Ephestia elutella, Galleria mellonella, Insect diseases, Larvae, Mortality, Plodia interpunctella, Spores, Stored products. French summary.

4865-69
ON THE ANTIOXIDATIVE MECHANISM OF ALPHA-, BETA-, GAMMA- AND DELTA TOCOPHEROLS IN LARD. (GE)
I T Kovats E Berndorfer-Kraszner
Nahrung 12(4):407-414
1968 389.8 N142
Antioxidants, Lard, Temperature, Tocopherols, Vitamin e. English and Russian summary.

ARTHROPODS

4866-69
BULK WHEAT PESTS CAN BE CONTROLLED BY SIMPLE PRECAUTIONS.
R A French
New Zeal J Agr 117(4):30-31,33
Oct 1968 23 N48J
Bacteria, Food moisture, Insect pests, Integrated control (pests), Molds, Pest control, Storage injuries, Wheat.

4867-69
SUSCEPTIBILITY OF DIFFERENT STORED-PRODUCTS MOTH LARVAE TO BACILLUS THURINGIENSIS.
P A van der Laan H J M Wassink
Entomophaga Mem Hors Ser (2):315-322 REF
1964 421 EN835M
Achroia grisella, Anagasta kuehniella, Bacillus thuringiensis, Biological control (insects), Cadra cautella, Dosage, Ephestia elutella, Galleria mel-

lonella, Larvae, Mortality, Plodia interpunctella, Stored products. French summary.

MICROBIAL CONTAMINATION

4868-69
BACTERIOSTATIC PROPERTIES OF MILK FROM TROPICAL COUNTRIES.
J E Auclair
Int Dairy Fed Annu Bull (PT 4):7-44 REF
1968 44.9 IN82A
Bacteria, Food contamination, Milk analysis, Storage, Tables (data), Temperature, Tropics. French translation found on pages 55-66.

4869-69
EXPERIENCES WITH CULTURE MEDIA FOR THE SELECTIVE MICROBIOLOGICAL ANALYSIS OF MEATPRODUCTS. (GE)
G Reuter
Arch Lebensmittelhyg 19(3):53-57
Mar 1968 41.8 L49
Bacteria, Culture media, Enterobacteriaceae, Food contamination, Food sanitation, Human nutrition, Meat, Microbiology, Micrococcaceae, Pseudomonadaceae, Staphylococcus.

ENVIRONMENTAL CONTAMINATION

4870-69
PESTICIDES IN WATER, PESTICIDES IN SELECTED WESTERN STREAMS--A CONTRIBUTION TO THE NATIONAL PROGRAM.
E Brown Y A Nishioka
Pest Mont J 1(2):38-46 MAP
Sep 1967 SB951.A1P41
Chromatography, Herbicides, Maps, Pesticide residues, Pesticides, Tables (data), Water analysis, Water pollution. The soil was analyzed for twelve pesticides.

4871-69
PERSISTENCE AND MOVEMENT OF PARATHION IN IRRIGATION WATERS.
C W Miller W E Tomlinson R L Norgren
Pest Mont J 1(2):47-48
Sep 1967 SB951.A1P41
Aerial spraying, Aquatic animals, Chemicals, Cranberry bogs, Irrigation ditches, Organophosphorus compounds, Parathion, Pesticide residues, Pesticides, Toxins, Water analysis, Water pollution.

RESIDUES

4872-69
OUR STRUGGLE AGAINST PESTS. II.
Anonymous
Pest Contr Oper News 27(8):4-6,29
Aug 1967 SB951.A1P4
Animals, Chemical control (pests), Government aid, Insect pests, Integrated control (pests), Legislation, Pesticide residues, Pesticides, Plant diseases, Plant protection, Research, Weeds.

4873-69
HERE WE GO AGAIN... PESTICIDES UNDER FIRE FROM NEW CONSUMER GROUP.
C O Barnard
Farm Chem 131(5):50,52
May 1968 57.8 AM3
Consumer preferences, Food contamination, Pesticide residues, Pesticides.

4874-69
PESTICIDES IN HATCHERY TROUT---DIFFERENCES BETWEEN SPECIES AND RESIDUES LEVELS OCCURING IN COMMERCIAL FISH FOOD.
A Bradford H Cole D Barry P Baumgarner D E H Frear
Pest Mont J 1(2):35-37
Sep 1967 SB951.A1P41
Benzene hexachloride, Chemicals, Chlorinated hydrocarbons, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Dieldrin, DDT, Fish, Heptachlor, Heptachlor epoxide, Pesticide residues, Pesticides, Research, Tables (data), TDE, Trout.

4875-69
RESIDUES IN FISH, WILDLIFE, AND ESTUARIES. CHLORINATED PESTICIDE LEVELS IN THE EASTERN OYSTER (CRASSOSTREA VIRGINICA) FROM SELECTED AREAS OF THE SOUTH ATLANTIC AND GULF OF MEXICO.
J C Bugg Jr. J E Higgins E A Robertson Jr.
Pest Mont J 1(3):9-12
Dec 1967 SB951.A1P41
Chlorinated hydrocarbons, Chromatography, Fish, Oysters, Pesticide residues, Quantitative analysis, Spraying, Tables (data), Wildlife.

4876-69
RESIDUES IN FISH, WILDLIFE, AND ESTUARIES. INSECTICIDE CONCENTRATIONS IN WILDLIFE AT PRESIDIO, TEXAS.
D D Culley H G Applegate
Pest Mont J 1(2):21-28 MAP REF
Sep 1967 SB951.A1P41
Birds, Carbamates, Carbaryl, Chlorinated hydrocarbons, Chromatography, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Endrin, Insecticides, Malathion, Mammals, Methyl parathion, Organophosphorus compounds, Parathion, Reptiles, Research, Residues, Tables (data), Tissues, TDE, Wildlife.

4877-69
THE DETERMINATION OF THE AMOUNT OF DIAZINON RESIDUES IN FOODSTUFF BY MEANS OF LABELED DIAZINON. (SUMMARY). (IT)
P Di Mattei N Sopranzi
Giornate Fitopatol 57
26 Mar 1967 SB599.G5
Chromatography, Diazinon, Food analysis, Insecticide residues, Organophosphorus compounds, Phosphorus.

4878-69
PERSISTENCE OF DDT IN CRAYFISH IN A NATURAL ENVIRONMENT.
J B Dimond R E Kadunce A S Getchell J A Blease
Ecology 49(4 SUMMER):759-762
1968 410 EC7
Chlorinated hydrocarbons, Chromatography, Crayfish, DDT, Insecticide residues, Spraying, Streams.

4879-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICAL.
R E Duggan
Fed Regist 34(8):486
11 Jan 1969 L1.451
Barban, Herbicides, Pesticide residues, Plant physiology.

4880-69
RESIDUES IN FOOD AND FEED. CHLORINATED PESTICIDE RESIDUES IN FLUID MILK AND OTHER DAIRY PRODUCTS IN THE UNITED STATES.
R E Duggan
Pest Mont J 1(3):2-8
Dec 1967 SB951.A1P41
Chlorinated hydrocarbons, Dairy products, Feed, Food, Milk, Pesticide residues, Quantitative analysis, Tables (data), Tolerances. Chemicals discussed are: DDT, DDE, TDE, dieldrin, heptachlor epoxide, BHC, lindane, aldrin, heptachlor, and methoxychlor.

4881-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. PARATHION OR ITS METHYL HOMOLOG.
J K Kirk
Fed Regist 34(15):1014
23 Jan 1969 L1.451
Agricultural products, Chemicals, Insecticides, Methyl parathion, Organophosphorus compounds, Parathion, Pesticide residues, Regulation (pesticides), Tolerances.

4882-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTRUAL COMMODITIES. DODECACHLOROOCTAHYDRO-1,3,4-METHENO-2TH-CYCLOBUTA (CD) PENTALENE.
J K Kirk
Fed Regist 34(21):1553
31 Jan 1969 L1.451
Agricultural products, Chemical control (insects), Insecticide residues, Mirex, Pesticides, Solenopsis saevissima richteri.

4883-69
PESTICIDE RESIDUES IN A MARINE POPULATION OF DOUBLE-CRESTED CORMORANTS.
C R Kury
J Wildlife Manage 33(1):91-95 REF
Jan 1969 410 J827
Aquatic birds, Chlorinated hydrocarbons, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Metabolites, Mortality, Pesticide residues, Reproduction.

4884-69
AN EVALUATION OF THE EFFECTS OF THE AEDES AEGYPTI ERADICATION PROGRAM ON WILDLIFE IN SOUTH FLORIDA.
P N Lehner T O Boswell F Copeland
Pest Mont J 1(2):29-34
Sep 1967 SB951.A1P41
Aedes aegypti, Benzene hexachloride, Chemicals, Chlorinated hydrocarbons, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Dieldrin, DDT, Evaluation, Heptachlor epoxide, Insect control, Insecticides, Pesticide residues, Research, Spraying, Tables (data), TDE, Wildlife.

4885-69
EFFECTS OF LOW VOLUME AERIAL SPRAYING OF DURSBAN AND FENTHION ON FISH.
J D Linn
Down Earth 24(2,FALL):28-30
1968 381 D75
Aerial spraying, Chemical control (insects), Culicidae, Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, O,O d, Fenthion, Fish, Insecticide application, Toxins.

4886-69
PESTICIDES IN SOIL. MONITORING FOR CHLORINATED HYDROCARBON PESTICIDES IN SOIL AND ROOT CROPS IN THE EASTERN STATES IN 1965.
W L Seal L H Dawsey G E Cavin
Pest Mont J 1(3):22-25
Dec 1967 SB951.A1P41
Chlorinated hydrocarbons, Chromatography, Crops, Dieldrin, DDT, Electron capture, Hydrocarbons, Insecticides, Pesticide residues, Roots, Soils, Tolerances.

4887-69
A LOOK AT THE PLANT PEST CONTROL DIVISON.
D R Shepherd
Agr Chem 24(2):10-13
Feb 1969 381 AG8
Aerial spraying, Biological control (pests), Control equipment, Insect identification, Legislation, Pesticide residues, Plant pest control, Safety devices, Soil analysis, Surveys.

4888-69
INVESTIGATION OF EFFECTS OF LARGE-SCALE APPLICATIONS OF 2,4-D ON AQUATIC FAUNA AND WATER QUALITY.
G E Smith B C Isom
Pest Mont J 1(3):16-21
Dec 1967 SB951.A1P41
Aquatic animals, D, 2,4-, Dosage, Esters, Herbicides, Myriophyllum spicatum, Pesticide application, Pesticide residues, Phenoxy acid compounds, Reservoirs, Variance analysis, Water analysis, Water treatment.

4889-69
PROBLEMS IN MONITORING DDT AND ITS METABOLITES IN THE ENVIRONMENT.
D A Spencer
Pest Mont J 1(2):54-57 REF
Sep 1967 SB951.A1P41
Aldrin, Bacteria, Chemicals, Chlorinated hydrocarbons, Dieldrin, DDT, Endrin, Environment, Enzymes, Heptachlor, Lindane, Metabolites, Microorganisms, Pesticide residues, Pesticides, Porphyrins, Soil fungi, Storage, Temperature, TDE.

4890-69
PESTICIDES IN PEOPLE. STORAGE OF DDT IN THE PEOPLE OF ISRAEL.
M Wassermann D Wassermann L Zellermayer M Gon
Pest Mont J 1(2):15-20 REF
Sep 1967 SB951.A1P41
Air pollution, Benzene hexachloride, Chlorinated hydrocarbons, Chromatography, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Dieldrin, DDT, Heptachlor epoxide, Human diseases, Measurement, Pesticides, Storage, Tables (data), TDE.

4891-69
PESTICIDE RESIDUES IN CULTIVATED MUSHROOMS. (FR)
A William P Martens
Inacol 18(11):437-448 REF
Nov 1967 TX599.I5
Aldrin, Chlorinated hydrocarbons, Diazinon, Dimethoate, DDT, Dosage, Economic plants, Fumigation, Lindane, Mushrooms, Organophosphorus compounds, Parathion, Pesticide residues, Sulfotepp. English and German summaries.

TOXICOLOGY

4892-69
DDT: SUBLETHAL EFFECTS ON BROOK TROUT NERVOUS SYSTEM.
J M Anderson M R Peterson
Science 164(3878):440-441
25 Apr 1969 470 SCI2
DDT, Dosage, Nervous system, Pesticides, Temperature, Toxicology, Trout.

4893-69
SEARCH FOR NEW INSECTICIDES.
M N Borle
Pocna Agr Coll Mag 58(2-3,JUN-SEP):49-54 REF
1968 22 P79
Animals, Biological control (insects), Chemical control (insects), Chlorinated hydrocarbons, DDT, Humans, Insect biochemistry, Insect diseases, Insect physiology, Insecticidal plants, Insecticide resistant insects, Insecticides, Poisoning, Research.

4894-69
EFFECTS OF CHRONIC EXPOSURE TO ZINC ON TOXICITY OF A MIXTURE OF DETERGENT AND ZINC.
V M Brown V V Mitrovic G T C Stark
Water Res 2(4):255-263 REF
Jun 1966 TD420.W3
Animal histology, Detergents, Sulfonic acids, Symptomatology, Toxicology, Trout, Water pollution, Zinc.

4895-69
NOTE ON MODIFICATIONS OF THE AOAC METHOD FOR AMPROLIUM IN FEED CONCENTRATES.
E J Davis
Ass Offic Anal Chem J 51(1):129-131
Jan 1968 381 AS7
Amprolium, Chemical reactions, Chromatography, Columns (process), Drugs, Feed concentrates, Feed toxicity.

4896-69
A TIDAL RHYTHM IN THE SUSCEPTIBILITY OF FUNDULUS SIMILIS TO SODIUM CHLORIDE AND ENDRIN.
J W Day
La Acad Sci Proc 31:62-64
31 Dec 1968 500 L932
Endrin, Fish, Laboratory animals, Resistance, Sodium chloride, Statistical analysis, Susceptibility.

4897-69
SOME OBSERVATIONS CONCERNING THE MAXIMUM DOSAGE ORDINANCE. (GE
H Drees
Gesunde Pflanzen 19(3):46-51
Mar 1967 464.8 G33
Acaricides, Dosage, Fungicides, Insecticides, Legislation, Organophosphorus compounds, Residues, Toxins.

4898-69
SOME PATHOLOGICAL EFFECTS OF SUBACUTE AND ACUTE POISONING OF RAINBOW TROUT BY PHENOL IN HARD WATER.
V V Mitrovic V M Brown D G Shurben M H Berryman
Water Res 2(4):249-254 REF
Jun 1968 TD420.W3
Animal diseases, Mortality, Phenols, Poisoning, Symptomatology, Trout, Water pollution.

4899-69
A SYNOPSIS OF THE PESTICIDE PROBLEM.
N W Moore
Advances Insect Physiol 4:75-129 REF
1967 420 AD9
Chemical control (pests), Ecology, Pest control, Pesticide application, Pesticides, Research, Toxicology.

4900-69
AN ANALYTICAL METHOD FOR DETERMINING ARSENIC IN BIOLOGICAL MATERIAL.
C K Ringham
U S Agr Res Serv ARS- (70):47-48
Dec 1968 A41.9 R315AR
Animals, Arsenic, Chemical analysis, Methodology, Residues, Spectrophotometry, Toxicology.

4901-69
USE INSECTICIDES SAFELY.
R E Roselle C R Angle
Nebr Univ Ext Ec (1501):12P
1968 275.29 N272EX
Accident prevention, Chemicals, Fish, Insecticide residues, Insecticides, Labeling, Safety education, Toxicology, Wildlife.

4902-69
IMIDAZOLE: FUNGITOXIC DERIVATIVES.
M Tolkmith J N Seiber P B Budde D R Mussell
Science 158(3807):1462-1463 REF
15 Dec 1967 470 SCI2
Chemistry, Fungicides, Imidazole, Imines, Mammals, Nitrogen, Phosphorus, Testing.

PLANT PHYSIOLOGY & BIOCHEMISTRY

4903-69
SOME EXPERIMENTS ON POLARITY OF IAA-2-C14 TRANSPORT IN HELIANTHUS ANNUUS SEEDLINGS.
H Bagda
Ankara Univ Fac Sci Commun (SER C)12:30P REF
1967 330.9 AN4
Autoradiography, Indoleacetic acid, Plant hormones, Plant physiology, Plant translocation, Polarization, Seedlings, Sunflowers, Tables (data). Turkish summary.

4904-69
GIBBERELLINS AS PLANT HORMONES. (DU)
G W M Barendse
Vakbl Biol 48(12):203-211, REF
Dec 1968 442.8 V22
Gibberellins, Plant hormones.

4905-69
GROWTH RETARDANT TESTS ON POTTED POINSETTIAS.
S T Besemer
Calif Agr 21(12):6-7
Dec 1967 100 C12CAG
Chloroethyl)trimethylammonium chloride, (2-, Dimethylaminosuccinamic acid, N-, Euphorbia pulcherrima, Foliar application, Greenhouse culture, Plant biochemistry, Plant physiology, Plant regulators, Spraying.

4906-69
GIBBERELLIN DELAYS RIPENING OF TOMATOES.
H C Dostal A C Leopold
Science 158(3808):1579-1580
22 Dec 1967 470 SCI2
Ethylene, Gibberellic acid, Growth factors, Plant growth inhibitors, Plant physiology, Plant regulators, Stimulants, Tomatoes.

4907-69
INFECTION STRUCTURES FROM RUST UREDIOSPORES: EFFECT OF RNA AND PROTEIN SYNTHESIS INHIBITORS.
L D Dunkle R Maheshwari P J Allen
Science 163(3866):481-482 REF
31 Jan 1969 470 SCI2
Heat, Inhibitors, Plant biochemistry, Proteins, Puccinia graminis tritici, Ribonucleic acid, Rust, Synthesis, Urediospores.

4908-69
THE EFFECT OF CCC AND AMO-1618 ON GROWTH, CATALASE, PEROXIDASE AND INDOLEACETIC ACID OXIDASE ACTIVITY OF YOUNG BARLEY SEEDLINGS.
T Gaspar J Lacoppe
Physiol Plant 21(5):1104-1109 REF
20 Sep 1968 450 P564 (1)
Barley, Chloroethyl)trimethylammonium chloride, (2-, Enzymes, Indoleacetic acid, Isopropyl-4-dimethylamino-5-methylphenyl 1-piperidinecarboxy o, Peroxidases, Plant metabolism, Plant physiology, Plant regulators, Seedlings.

4909-69
TRIALS WITH CARBON DIOXIDE, LIGHT AND GROWTH SUBSTANCES ON FOREST TREE PLANTS.
J E Hardh
Acta Forest Fenn 81:1-10 REF
1967 99.9 F492
Carbon dioxide, Gases, Gibberellic acid, Light, Plant nutrition, Plant physiology, Plant protection, Plastics, Tables (data), Trees. Finnish summary.

4910-69
DIURNAL VARIATION IN SOME KREBS CYCLE ENZYMES IN CACTUS (NOPALEA DEJECTA) PHYLLOCLADES.
A A Khan G G Sanwal
Indian J Biochem 2(4):207-212 REF
Dec 1965 QP501.I48
Diurnal rhythm, Enzymes, Mammillaria, Plant biochemistry, Plant morphology, Tricarboxylic acid cycle.

4911-69
RIBONUCLEIC ACIDS IN CROWN-GALL BACTERIA, AGROBACTERIUM TUMEFACIENS (SMITH AND TOWN), TREATED WITH SODIUM BORATE. (FR

L Le Goff
Inst Pasteur Ann 115(2):232-248 REF
Aug 1968 448.3 AN75
Agrobacterium tumefaciens, Amino acids, Bacterial diseases (plants), Boric acid, Chemical control (plant diseases), Crown galls, Plant physiology, Ribonucleic acid, Sodium borate, Tables (data). English summary.

4912-69
BORON IN PLANTS: A BIOCHEMICAL ROLE.
S Lee S Aronoff
Science 158(3802):798-799
10 Nov 1967 470 SCI2
Biosynthesis, Borates, Boron, Dehydrogenases, Electrophoresis, Enzymes, Glycolysis, Necrosis, Pentoses, Phenols, Photosynthesis, Plant biochemistry, Plant metabolism, Plant nutrition.

4913-69
COMPARISON OF SULPHUR DIOXIDE AND FORMALDEHYDE AS BACTERIOSTATS IN DIFFUSION. PART II.
J F T Oldfield J V Dutton D Grierson R K Heaney H J Teague
Int Sugar J (839):330-333
Nov 1968 65.8 IN8
Bacteriostats, Biochemistry, Carbonates, Chemical reactions, Diffusion, Formaldehyde, Hydrogen-ion concentration, Liming, Sugars, Sulfur dioxide.

4914-69
THE DIPYRIDILLICS IN TOMATO CULTURES. (IT)
D Picco
Notiz Mal Piante (SER 3)(3/4):273-287
1967 464.8 N84
Defoliants, Dipyridyl, Diquat, Paraquat, Plant cuttings, Plant physiology, Residues, Tomatoes. English summary.

4915-69
EFFECT OF SPARTIN UNDER DRYLAND FARMING ON SETARIA ITALICA (BEAUV.).
B Ramnath S B P Rao M J Sam S Chattopadhyay
Indian J Agron 13(2):112-114
Jun 1968 22 IN235
Dry farming, Grasses, Micronutrients, Setaria italica.

4916-69
GERMINATION OF RUSSIAN THISTLE SEEDS.
W A Rhoads E F Frolich A Wallace
Calif Agr 21(7):2
Jul 1967 100 C12CAG
Curly top, Insects, Plant physiology, Salsola kali, Seed germination, Seeds, Virus diseases (plants), Weeds.

4917-69
THE DETERMINATION OF THE EMBRYO VIABILITY OF WEED SEEDS BY THE TTC METHOD. (GE)
G Rieder W Koch
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):210-213
Feb 1967 410.9 G31M
Biological assay, Plant biochemistry, Seed viability, Tetrazolium 2,3,5-triphenyl-2H chloride, Weeds. English abstract.

4918-69
EFFECT OF FOLIAR SPRAYS OF PLANT REGULATORS (IAA AND GA) ON THE GROWTH AND YIELD OF KNOL KHOL (BRASSICA OLERACEA LINN. VAR. GONGYLODES).
A P Singh S N Singh
Trop Agr &peradeniya& 123(3-4,JUL-DEC):99-110 REF
Dec 1967 26 T751
Foliar application, Gibberellic acid, Indoleacetic acid, Kohlrabi, Plant physiology, Plant regulators.
Gibberellic acid effectively increased the yield of kohlrabi when applied at the rate of 10 ppm as a foliar spray.

4919-69
EFFECT OF GIBBERELLIC ACID ON THE FRUIT-SET, AND PARTHENO-CARPIC DEVELOPMENT OF FRUIT IN BHOKRI GRAPES. (VITIS VINIFERA L) .
S K Sood
Lal-Baugh 13(2,APR-JUN):25-29
1967 80 L15
Bakanae disease, Chemical control (plant diseases), Fruit setting, Fungus diseases (plants), Gibberella fujikuroi, Gibberellic acid, Grapes, Plant physiology, Plant regulators, Rice, Seeds, Tables (data), Thinning (fruit).

4920-69
STUDIES ON THE EFFECT OF GROWTH REGULATORS ON POLLEN GERMINATION AND TUBE GROWTH IN SHOE FLOWER (HIBISCUS ROSASINENSIS L.).
G Vilasini M K George P K Pillai
Agr Res J Kerala 5(1/2,MAR-SEP):1-11 REF
1967 22 AG823
D, 2,4-, Gibberellic acid, Hibiscus rosa-sinensis, Indoleacetic acid, Plant growth inhibitors, Plant physiology, Plant regulators, Pollen tube.

CHEMISTRY

4921-69
CARE AND USE OF VETERINARY BIOLOGICS.
USDA PA- (841):7P
Jun 1968 1 AG84PRO
Animal diseases, Biological products, Drug therapy, Drugs, Veterinary medicine.

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TRICARBOXYLIC ACID CYCLE ACTIVITY IN A PSEUDOMONAD.
S K Basu A M Chakrabarty
Indian J Biochem 2(4):230-234 REF
Dec 1965 QP501.I48
Bacteria, Biochemistry, Pseudomonadaceae, Tricarboxylic acid cycle.

4923-69
EFFICIENCY PARAMETERS OF GAS CHROMATOGRAPHY COLUMNS USED IN PESTICIDE RESIDUE ANALYSIS.
D C Bostwick L Giuffrida
Ass Offic Anal Chem J 51(1):34-39 REF
Jan 1968 381 AS7
Chemical analysis, Chromatography, Pesticide residues.

4924-69
HEAT-STABLE ELEMENTS IN COMMERCIAL PREPARATIONS BASED ON BACILLUS THURINGIENSIS BERLINER. (FR)
A Burgerjon
Entomophaga Mem Hors Ser (2):227-237 REF
1964 421 EN835M
Bacillus thuringiensis, Biological assay, Heat, Toxins. English summary.

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POLYGUANYLIC ACID AND ITS EFFECT ON AMINO ACID INCORPORATION.
A K Chakravorty B B Biswas
Indian J Biochem 2(4):275-277 REF
Dec 1965 QP501.I48
Amino acids, Biochemistry, Enzymes, Polyguanylic acid.

4926-69
STRUCTURE OF KLEIN'S METABOLITES OF ALDRIN AND OF DIELDRIN.
J N Damico J T Chen C E Costello E O Haenni
Ass Offic Anal Chem J 51(1):48-55
Jan 1968 381 AS7
Aldrin, Chemical reactions, Chromatography, Dieldrin, Ionization, Metabolites, Molecular weight, Pesticides, Rats, Spectrometry, Tables (data), Urine.

4927-69
THE BIOCHEMISTRY OF VIBRIO CHOLERAE: PART IV. ACID SOLUBLE NUCLEOTIDE CONSTITUENTS.
K Deshmukh K Ganapathi
Indian J Biochem 2(4):234-236 REF
Dec 1965 QP501.I48
Acids, Bacteria, Biochemistry, Nucleotides, Solubility, Vibrio comma.

4928-69
SCREENING METHOD FOR ZEARALENONE, AFLATOXIN, AND OCHRATOXIN.
R M Eppley
Ass Offic Anal Chem J 51(1):74-78 REF
Jan 1968 381 AS7
Aflatoxin, Chloroform, Chromatography, Coffee, Columns (process), Cottonseed, Molds, Mycotoxins, Ochratoxin, Redpeppers (vegetable), Silica gels, Toxins, Water analysis, Zearalenone.

4929-69
PESTICIDE HANDBOOK - ENTOMA - 1968.
D E H Frear
College Science Publishers, Pa. 323P
1968 225 F87
Handbooks, Pesticides.

4930-69
EFFECT OF ULTRAVIOLET RADIATION ON THE OXIDATION OF CERTAIN KREBS CYCLE SUBSTRATES IN VIBRIO CHOLERAE.
N K Kapoor P Sagar S C Agarwala
Indian J Biochem 2(4):237-240 REF
Dec 1965 QP501.I48
Bacteria, Biochemistry, Irradiation, Oxidation, Substrates, Tricarboxylic acid cycle, Ultraviolet rays, Vibrio comma.

4931-69
PROTON MAGNETIC RESONANCE SPECTRA OF SOME PHENYL-PHOSPHORUS COMPOUNDS.
R Keat
Chem Indus (40):1362-1363
05 Oct 1968 382 M31C
Absorption spectra, Cell nucleus, Chemistry, Nuclear magnetic resonance, Organophosphorus compounds, Oxides, Phosphine, Phosphorus isotopes.

4932-69
SOME BIOCHEMICAL CHANGES TAKING PLACE IN THE COURSE OF THE TRANSFORMATION OF STREPTOMYCIN RESISTANCE IN STREPTOCOCCI. (RUS
A N Klimov M M Krasilnikova I M Terioshin
Genetika 4(7):101-107 REF
1968 QH431.A1G4
Antibiotics, Bacteria, Biochemistry, Cells, Deoxyribonucleic acid, Immunity, Resistance, Ribonucleic acid, Streptococcus, Streptomycin. English summary.

4933-69
THE COMPARATIVE ACTIONS OF UREA AND THIOGLYCOLATE ON THE REPRESENTATIVE TOXIN OF BACILLUS THURINGIENSIS. (FR)
M-M Lecadet
Acad Sci Compt Rend Ser D Sci Nat 264(24, 1ST SEMESTER):2847-2850
12 Jun 1967 505 P21
Bacillus thuringiensis, Biochemistry, Toxins, Urea.

4934-69
VARIATION OF FLORISIL ACTIVITY: SIMPLE METHOD FOR MEASURING ADSORBENT CAPACITY AND ITS USE IN STANDARDIZING FLORISIL COLUMNS.
P A Mills
Ass Offic Anal Chem J 51(1):29-32
Jan 1968 381 AS7
Adsorption, Chromatography, Florisil, Hexane, Pesticide residues, Sodium sulfates.

4935-69
SYNTHESIS OF SUBSTANCES RELATED TO GIBBERELLINS. PART XVIII. TOTAL SYNTHESIS OF (PLUS OR MINUS) GIBBERELLINS A A SUBSCRIPT 4, A SUBSCRIPT 9, AND A SUBSCRIPT 10.
K Mori M Shiozaki N Itaya T Ogawa M Matsui Y Sumiki
Tetrahedron Lett (18):2183-2188 REF
Mar 1968 385 T29
Chemical reactions, Chemicals, Chromatography, Gibberellins, Synthesis.

4936-69
INTRACELLULAR LOCALIZATION AND CHARACTERISTICS OF LACTATE DEHYDROGENASE ACTIVITY OF SALMONELLA TYPHOSA (NCTC 8385).
M M R Nasir C R K Murti
Indian J Biochem 2(4):225-229 REF
Dec 1965 QP501.I48
Bacteria, Biochemistry, Cells, Dehydrogenases, Lactates, Salmonella typhosa.

4937-69
A PRELIMINARY STUDY OF THE EXTRACTION OF PARATHION AND DIAZINON BY THE MILLS, ONLEY, GAITHER ACETONITRILE PROCEDURE.
M L Porter J A Burke
Ass Offic Anal Chem J 51(1):63-64
Jan 1968 381 AS7
Acetonitrile, Diazinon, Extraction, Kale, Parathion, Pesticide residues, Radioactivity, Spraying.

4938-69
TLC SPOTTING SOLVENT FOR AFLATOXINS.
L Stoloff A C Beckwith M E Cushmac
Ass Offic Anal Chem J 51(1):65-67
Jan 1968 381 AS7
Aflatoxin, Benzene, Chemical reactions, Chloroform, Chromatography, Ethyl alcohol, Silica gels.

4939-69
FATTY ACID COMPOSITION OF PHOSPHATIDYL ETHANOLAMINE OF MYCOBACTERIUM TUBERCULOSIS.
D Subrahmanyam
Indian J Biochem 2(4):274-275
Dec 1965 QP501.I48
Biochemistry, Fatty acids, Mycobacterium tuberculosis, Phosphatidylethanolamine.

4940-69
EFFECTS OF CHEMICAL PRESERVATIVES AND STORAGE ON CONSTITUENTS USED TO CHARACTERIZE LEMON JUICE.
C E Vandercook H C Guerrero
Ass Offic Anal Chem J 51(1):6-10 REF
Jan 1968 381 AS7
Chemical reactions, Food preservatives, Lemons, Phenols, Potassium sorbate, Storage, Sulfur dioxide, Temperature.

4941-69
THEORY OF DISINFECTANT TESTING.
A H Walters
Chem Indus (40):1339-1341
05 Oct 1968 382 M31C
Antiseptics, Chemicals, Chemistry, Mathematical analysis, Research.

4942-69
EXTRACTION AND CLEANUP PROCEDURE FOR THE GAS CHROMATOGRAPHIC DETERMINATION OF FOUR DINITROPHENOLIC PECTICIDES.
G Yip S F Howard
Ass Offic Anal Chem J 51(1):24-28
Jan 1968 381 AS7
Cleanup, Dinitro-o-sec-amylphenol, Dinitrobutylphenol, Dinitrocresol, Dinitrophenols, Extraction, Herbicides, Pesticide residues.

ENGINEERING

4943-69
AG FIRM CONCENTRATES ON WATERLESS SPRAYING.
Anonymous
Aerial Appl 6(8):6
Aug 1968 333.8 AE8
Aerial spraying, Aircraft, Chemical control (pests), Dosage, Economics, Insect pests, Rice.

4944-69
AIRCRAFT OPERATIONS IN THE COLUSA PROJECT.
W E Burgoyne N B Akesson
Down Earth 24(2,FALL):7-10 MAP
1968 381 D75
Aerial spraying, Anopheles, Chemical control (insects), Culex, Culicidae, Dosage, Economics, Equipment, Helicopters, Insecticide application, Larvicides.

4945-69
THE MACHINERY GENERALLY USED FOR EFFICIENT STERILIZATION AND DISINFESTATION OF THE SOIL. (IT)
G Censi
Notiz Mal Piante (SER 3)(3/4):67-74
1967 464.8 N84
Animals, Chemical control (pests), Equipment, Fumigants, Plants, Soil fumigation, Soil microorganisms, Soil sterilization. English summary.

4946-69
FOR A BETTER AND MORE PROFITABLE TECHNIQUE IN THE APPLICATION OF SOIL FUMIGANTS. (IT)
A Sprea
Notiz Mal Piante (SER 3)(3/4):253-258
1967 464.8 N84
Equipment, Nematodes, Pesticide application, Soil fumigation, Tractors. English summary.

INDUSTRY

4947-69
SOME FACTORS AFFECTING THE CHOICE OF MATERIALS FOR CHEMICAL PLANT EQUIPMENT.
A J P Tucker
Chem Proc 3(4,AUG-SEP):89-92
1968 TP1.S6
Chemicals, Construction materials, Corrosion, Economics, Engineering, Equipment, Industry, Temperature.

ECONOMICS

4948-69
HOW IAN HENDRIF IS STEERING SHELL INTERNATIONAL INTO EXPANDING PESTICIDE MARKETS.
Farm Chem 131(10):15-22
Oct 1968 57.8 AM3
International cooperation, Market development, Pesticides, Research.

4949-69
NPCA CONFERENCE SPEAKERS HIT PCO PRICING METHODS.
Anonymous
Pest Contr 36(12):20-22,24,26,28,30
Dec 1968 449.8 EX8
Advertising, Agricultural organizations, Conferences, Management, Pest control operators, Price control.

4950-69
SODIUM TRI-POLYPHOSPHATE CARRIED BY TANKER.
Anonymous
Chem Proc 3(4,AUG-SEP):102
1968 TP1.S6
Chemicals, Equipment, Sodium tripolyphosphate, Tank trucks, Transportation.

4951-69
1969-PEST CONTROL'S ECONOMIC FORECAST.
Anonymous
Pest Contr 36(12):9-10,12,30-33
Dec 1968 449.8 EX8
Advertising, Agricultural statistics, Economic forecasting, Government aid, Housing, Pest control operators, Public relations, Sales, Surveys.

4952-69
THE PESTICIDE REVIEW.
Anonymus
Agr Chem 24(2):15-17
Feb 1969 381 AG8
Chemical control (insects), Chemical control (pests), Chemical control (plant diseases), Chemical control (weeds), Chemicals, Consumption, Fumigants, Fungicides, Herbicides, Insecticides, Manufacturing costs, Minerals, Pesticides, Sales, Silicates, Supply and demand.

4953-69
THE COTTON FARMER OF THE YEAR .
Cotton Farming Suppl Crops Mid-S Ed 11(10,NOV-DEC):18-19
1967 72.8 C8296
Agricultural economics, Cotton, Crop yields, Farmers.

4954-69
AN INVENTORY OF MARKET NEWS REPORTS FOR POULTRY.
F L Faber D E Stringer
USDA Econ Res Serv ERS (374):33P
Apr 1968 A281.9 AG83E
Marketing costs, Poultry, Regions.

4955-69
ON THE INFLUENCE OF EFFLUENT OF THE STARCH FACTORY UPON THE YUBETSU RIVER AND THE SHOKOTSU RIVER, AND OF EFFLUENT OF THE BEST FACTORY UPON THE BENTHIC ANIMALS IN THE ABASHIRI RIVER (HOKKAIDO).
K Gose
Jap J Ecol 17(4):137
Aug 1967 410 J272
Animals, Beets, Industrial wastes, Reproduction, Research, Starches. English summary

4956-69
WE CAN SOLVE INTERNATIONAL RESIDUE PROBLEM IF...
H Hurtig
Farm Chem 131(10):54,56,58
Oct 1968 57.8 AM3
Agricultural policies, Extension work, International cooperation, Pesticide residues.

4957-69
SOME PROBLEMS OF METHOD AND CONTENT IN WORKING-UP A FORECAST - DEMONSTRATED ON THE EXAMPLE OF THE PLANT PROTECTION- AND PESTICIDE MANUFACTURING INDUSTRY. (GE)
F Schapitz
Chem Tech 20(8):498-499
Aug 1968 384 C4283
Economic forecasting, Industry, Insecticides, Pest control, Plant protection.

4958-69
THE PRACTICAL USE OF AERIAL APPLICATION.
C M Voss
Agr Chem 23(3):25-28
Mar 1968 381 AG8
Aerial spraying, Agricultural regulation, Economics, Equipment, Pesticide application. This article is based on a talk by Dr. Voss at an Agricultural Chemical Workers Pest Control School, Aug. 29, at Penn. State Univ.

EDUCATION

4959-69
HOW TO PREVENT AND REMOVE MILDEW; HOME METHODS.
U S D A Home Gard Bull (68):1-13
Jul 1968 1 AG84HG
Absorption, Aluminum oxide, Calcium chloride, Fungi, Fungicides, Humidity, Mildew, Silica gels, Spraying.

4960-69
OUR STRUGGLE AGAINST PESTS.
Anonymous
Pest Contr Oper News 27(7):5-6,8,10
Jul 1967 SB951.A1P4
Accident prevention, Chemicals, Industry, Insect pests, Legislation, Pest control operators, Pesticides, Public health, Public relations, Research. This was part one of a two part article

REGULATIONS

4961-69
WATER POLLUTION LAWS CALLED AMBIGUOUS WEAK .
Anonymous
Calif Cattleman 51(10):34
Nov 1968 43.8 C12
Agricultural legislation, Agricultural regulation, Degradation, Water analysis, Water pollution.

4962-69
PART II PROPOSED FOR PARAQUAT.
Anonymous
Phar J 201(5470):190
31 Aug 1968 396.8 P49
Chemical control (weeds), Death, Herbicides, Legislation, Paraquat, Pesticides, Poisons, Regulations. Changes in the poisons list and rules were proposed.

4963-69
PLANT AND PROFIT IN '68.
A Ballinger
Cotton Farming Suppl Crops Mid-S Ed 11(10,NOV-DEC):10,15
1967 72.8 C8296
Agricultural economics, Agricultural legislation, Agricultural regulation, Cotton, Crop yields, Planting.

4964-69
THE LAW AND THE USE OF PESTICIDES.
W Carlson
Ill Agr Econ 8(2):9-16
Jul 1968 281.9 IL1
Aerial spraying, Agricultural regulation, Chemical control (weeds), Farmers, Herbicides, Legislation, Pesticides, Plant protection.

ABDOMEN
The presence of volatile fatty acids in the gut of a higher termite (Microcerotermes edentatus Was., Amitermitinae).
4535

ABIES ALBA
First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

ABIES CONCOLOR
First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

ABIES LASIOCARPA
First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

ABSORPTION
Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

How to prevent and remove mildew; home methods.
4959

ABSORPTION SPECTRA
Proton magnetic resonance spectra of some phenyl-phosphorus compounds.
4931

ACARI
Chelacheles michalskii n. sp. (Acari, Cheyletidae).
4427

ACARICIDES
Spider mites on cotton; how to control them.
4737

Some observations concerning the maximum dosage ordinance.
4897

ACARINA
The discovery in France of the Acarina Nemata-lycidae Strenzke while organizing the material from Languedoc-Rousillon.
4372

ACCIDENT PREVENTION
Insect and mite control on nursery stock in Ohio.
4743

Use insecticides safely.
4901

Our struggle against pests.
4960

ACETAMIDE
Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

ACETONE
Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

ACETONITRILE
A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure.
4937

ACHETA DOMESTICUS
Tritium labelling and cytochemistry of extra DNA in Acheta.
4642

ACHROIA GRISELLA
Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

ACID PHOSPHATASE
Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

ACIDS
The biochemistry of Vibrio cholerae: Part IV. Acid soluble nucleotide constituents.
4927

ACRIDIDAE
New species of Meubelia Willemse, 1932, from the Philippines (Orthoptera: Pyrgomorphidae).
4400

Contribution to the biological study of the Diptera Sarcophagidae, parasites of acridids. The biological cycle of Blaesoxipha rossica Vill., injection of larvae in the body of the host by the female Sarcophagidae.
4547

DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae).
4633

Synapsis and crossing over within a paracentric inversion in the grasshopper, Camnula pellucida.
4644

Some pests of ornamental plants in Madras.
4735

ACROLEPIA ASSECTELLA
The importance of heterogeneity in the sexual attraction exercised by female Acrolepia assectella Zeller.
4587

ACTINOMYCETES
Occurrence of antibacterial and antifungal actinomycetes in cultivated soils of West Bengal.
4667

ACULEATA
Community studies on Hymenoptera found on Brassica napus. Part IV. Aculeata.
4567

ACYRTHOSIPHON PISUM
Aphidius smithi Sharma and Subba Rao (Hymenoptera: Aphidiidae) a parasite of the pea aphid new in Southern Ontario.
4350

ADELGES
Respective roles of the pathogen and gall mites in the morphogenesis and histo-cytological development of two Chermesidae galls. Placed in evidence by the achievement of two similarly mixed galls.
4753

ADELGES PICEAE
First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

ADSORPTION
Variation of Florisil activity: Simple method for measuring adsorbent capacity and its use in standardizing Florisil columns.
4934

ADVERTISING
NPCA conference speakers hit PCO pricing methods.
4949

1969-Pest Control's economic forecast.
4951

AEDES
Mosquito pollination of Habenaria obtusata (Orchidaceae).
4675

AEDES AEGYPTI
Spermiogenesis in Aedes aegypti (L.).
4536

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

AERIAL FERTILIZING
Fertilization of semi-mature stands in Newfoundland.
4652

AERIAL SPRAYING
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

New fungicide for potato blight.
4684

Sugar beet crop protected through aerial application.
4721

Control of date palm leafhoppers in Iraq by aerial spraying.
4739

Study of the virus disease of Neodiprion swainei Midd. and results of its aerial dispersion.
4758

Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4775

Persistence and movement of parathion in irrigation waters.
4871

Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

A look at the plant pest control divison.
4887

Ag firm concentrates on waterless spraying.
4943

Aircraft operations in the Colusa project.
4944

The practical use of aerial application.
4958

The law and the use of pesticides.
4964

AFLATOXIN
Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

TLC spotting solvent for aflatoxins.
4938

AFRICAN HORSE SICKNESS
Quantitative studies on the neutralization reaction between African horse-sickness virus and antiserum.
4817

AGAR
A new culture method for Rhynchosciara.
4563

Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

AGGLUTINATION
Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

AGING
A criterion of transformation for age-weight data on insect larval growth.
4481

The incidence and burden of Hymenolepis diminuta cysticerloids as a function of the age of the intermediate host, Tribolium confusum.
4524

Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

AGONUM MUELLERI
Distribution and distributional centers of North Atlantic insects.
4407

AGRICULTURAL ECONOMICS
Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

New fungicide promises effective and economical plant disease control.
4682

The cotton farmer of the year.
4953

Plant and profit in '68.
4963

AGRICULTURAL INDUSTRIES
Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

AGRICULTURAL ORGANIZATIONS

AGRICULTURAL LEGISLATION
Water pollution laws called ambiguous weak .
4961

Plant and profit in '68.
4963

AGRICULTURAL ORGANIZATIONS
NPCA conference speakers hit PCO pricing methods.
4949

AGRICULTURAL OUTLOOK
Pessimism over crop diseases.
4679

The nourishment of milk calves is essential for the future of the product.
4787

AGRICULTURAL POLICIES
We can solve international residue problem if...
4956

AGRICULTURAL PRODUCTIVITY
The individual.
4789

AGRICULTURAL PRODUCTS
Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog.
4881

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultrual commodities. Dodecachlorooctahydro-1,3,4-metheno-2th-cyclobuta (cd) pentalene.
4882

AGRICULTURAL REGULATION
Domestic quarantine notices. Soybean cyst nematode. Quarantine and regulations.
4764

The practical use of aerial application.
4958

Water pollution laws called ambiguous weak .
4961

Plant and profit in '68.
4963

The law and the use of pesticides.
4964

AGRICULTURAL STATISTICS
Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

1969-Pest Control's economic forecast.
4951

AGRICULTURE
Plant protection in agriculture.
4670

AGROBACTERIUM TUMEFACIENS
The influence of illumination on the development of tumors caused by Agrobacterium tumefaciens (Smith and Town) Conn. on pea seedlings, Pisum sativum L..
4707

Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

AGROPYRON REPENS
Black stem- the second stem disease of grains.
4734

AGROSTIS
Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae).
4376

AGROTIS
Some pests of ornamental plants in Madras.
4735

AIR POLLUTION
Pesticides in people. Storage of DDT in the people of Israel.
4890

AIRCRAFT
Ag firm concentrates on waterless spraying.
4943

ALBINISM
Polyacrylamide gel electrophoretic analysis of the proteins of Locusta migratoria (L.) and the corresponding albino mutant.
4561

ALDRIN
Some pests of ornamental plants in Madras.
4735

Narcissus flies.
4748

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticide residues in cultivated mushrooms.
4891

Structure of Klein's metabolites of aldrin and of dieldrin.
4926

ALFALFA
A record of Megachile rotundata (F.) from Ashcroft. British Columbia.
4358

ALKALINE PHOSPHATASE
Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

ALLERGIES
Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966.
4795

ALMONDS
Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

ALUMINUM OXIDE
How to prevent and remove mildew; home methods.
4959

AMETRYNE
Possibilities of limiting tillage measures in potato cultures when using herbicides. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4773

AMINO ACIDS
Amino acid requirements of the cotton stainer, Dysdercus fasciatus Signoret (Pyrrhocoridae, Hemiptera).
4447

Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

Rhizosphere root exudates and their effect on microbial activity.
4662

Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

Polyguanylic acid and its effect on amino acid incorporation.
4925

AMINO-1,2,4-THIAZOLE, 3-
The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
4685

AMITOSIS
Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO_2 gas.
4647

AMITROLE
Blackberry control near orchards and vegetable gardens.
4770

AMPHOROPHORA RUBI
Several measures used to combat fruit plant viruses.
4731

A new gene from Rubus occidentalis L. for resistance to strains 1, 2 and 3 of the rubus aphid, Amphorophora rubi Kalt.
4746

AMPROLIUM
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

Note on modifications of the AOAC method for amprolium in feed concentrates.
4895

ANAEROBES
General method for the culture of helminths in anaerobic conditions.
4854

ANAGASTA KUEHNIELLA
Results of experiments carried out in Hungary with Bacillus thuringiensis.
4525

Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

ANARTA LAPPONICA
Distribution and distributional centers of North Atlantic insects.
4407

ANATOMY
The role of nematodes in horticulture.
4767

ANCYLOSTOMA DUODENALE
Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

ANGULAR LEAFSPOT
Breeding work for the creation of glandless cotton varieties in chad.
4654

ANIMAL BREEDING
The individual.
4789

ANIMAL DISEASE TRANSMISSION
Persistance of the genome of the Rous virus in hamster cells changed in vitro, and the action of inactivated Sendai virus on its transmission to chick cells.
4848

ANIMAL DISEASES
The individual.
4789

Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis.
4808

Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Sideroleucocytes as a diagnostic aid in equine infectious anaemia.
4815

Sudden death in feeder pigs.
4816

Experiences about the tolerance and use of Stagloban in the dog.
4836

Staphylococcal intoxication of young suckling whelps.
4840

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

Therapeutic effect of SDDS (2-sulfamoyl-4,4'-diaminodiphenyl sulfone) on experimental toxoplasmosis.
4843

The myiasis fly of the African aardvark (Orycteropus afer (Pallas)).
4852

Thiabendazole as a broad-spectrum anthelmintic. (abstract).
4853

Some pathological effects of sub-acute and acute poisoning of rainbow trout by phenol in hard water.
4898

Care and use of veterinary biologics.
4921

ANIMAL HISTOLOGY
Sudden death in feeder pigs.
4816

Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

Effects of chronic exposure to zinc on toxicity of a mixture of detergent and zinc.
4894

ANIMAL MORPHOLOGY
The individual.
4789

ANIMAL NUTRITION
The nourishment of milk calves is essential for the future of the product.
4787

Host-parasite relationship. 1. Studies on the productivity of sheep as affected by Haemonchosis.
4858

ANIMAL PHYSIOLOGY
The individual.
4789

Hormonal effect on certain glycolytic enzymes of rat mammary gland.
4831

ANIMAL VECTORS
The epizootiological importance of foot-and-mouth disease carriers. II. The carrier status of cattle exposed to foot-and-mouth disease following vaccination with an oil adjuvant inactivated virus vaccine.
4827

ANIMALS
First records of eye-frequenting moths from Ceylon.
4365

Contributions to the (Diptera, Simuliidae) fauna of Austria. lll. The fauna of the valley of the YBBS.
4851

Our struggle against pests. II.
4872

Search for new insecticides.
4893

An analytical method for determining arsenic in biological material.
4900

The machinery generally used for efficient sterilization and disinfestation of the soil.
4945

On the influence of effluent of the starch factory upon the Yubetsu River and the Shokotsu river, and of effluent of the best factory upon the benthic animals in the Abashiri River (Hokkaido).
4955

ANNUAL PLANTS
Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4774

ANOMIS SABULIFERA
A preliminary study on the polyhedrosis virus of jute semilooper, Anomis sabulifera Guen.
4516

ANOPHELES
Aircraft operations in the Colusa project.
4944

ANOPHELES QUADRIMACULATUS
Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

ANTENNAE
Electrophysiological evidence of the tactile function of the sensillary trichia on the antenna of the Speophyes lucidulus Delarouzee (cave Coleoptera) larva.
4479

ANTHELMINTICS
Thiabendazole as a broad-spectrum anthelmintic. (abstract).
4853

Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

ANTHERAEA EUCALYPTI
The problem of viral latency in insect tissue cultures.
4484

ANTHERAEA PERNYI
Histochemical data on the neurosecretory allata terminations in Antheraea pernyi Guer. (Lepidoptera, Attacidae) and in Rhodnius prolixus Stal. (Hemiptera, Reduviidae).
4469

ANTHONOMUS GRANDIS
The boll weevil; How to control it. Part II.
4348

Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

ANTIBIOSIS
Occurrence of antibacterial and antifungal actinomycetes in cultivated soils of West Bengal.
4667

ANTIBIOTICS
The nourishment of milk calves is essential for the future of the product.
4787

Isolation of conjugation-constitutive mutants of Colicin factor Ib.
4832

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

ANTIBODIES
Quantitative studies on the neutralization reaction between African horse-sickness virus and antiserum.
4817

Opsonins examination in the mouse after endotoxin-induced resistance to infection.
4833

Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

ANTIGENS
Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis.
4808

Incidence of hydatosis in livestock in Lahore.
4842

Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

Isolation of a specific antigen of the large liver fluke (Fasciola hepatica L.).
4862

ANTIOXIDANTS
On the antioxidative mechanism of alpha-, beta-, gamma- and delta tocopherols in lard.
4865

ANTISEPTICS
Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

The effects of soil sterilization procedures on the microbiological equilibrium of the soil.
4672

Theory of disinfectant testing.
4941

ANTISERUM
The physio-pathology of chicken caecal coccidiosis: Experimental study of immunogenesis, action of specific antilymphocytic sera.
4809

Quantitative studies on the neutralization reaction between African horse-sickness virus and antiserum.
4817

AONIDIELLA AURANTII
Test on the use of Fusarium episphaeria f. coccophila (Desm.) Snyder and Hansen in the control of the California red scale , Aonidiella aurantii.
4483

The biological control of red scale, Aonidiella aurantii (Mask.), on citrus in South Africa.
4741

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

APANTELES CONGREGATUS
Diapause in Apanteles congregatus.
4586

APHELINIDAE
The ecological importance of the predatory behavior of Aphelinus asychis Walker, Hym., Aphelinidae, an endoparasite of Purcerons (Hom., Aphididae).
4566

APHIDIDAE
A study of Neuquenaphis Blanchard, 1939, with descriptions of new species (Aphididae, Homoptera).
4402

Aphids from the subtribe Schizolachnina (Aphidoidea, Lachninae) in Middle Europe.
4420

The ecological importance of the predatory behavior of Aphelinus asychis Walker, Hym., Aphelinidae, an endoparasite of Purcerons (Hom., Aphididae).
4566

Notes on insect and gastropode damage to enclosed cotton plantations.
4671

The viruses of the black and red currant.
4705

The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

A new gene from Rubus occidentalis L. for resistance to strains 1, 2 and 3 of the rubus aphid, Amphorophora rubi Kalt.
4746

Hard-to-kill pests of fruit trees--woolly apple-aphid.
4747

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

APHIDIUS SMITHI
Aphidius smithi Sharma and Subba Rao (Hymenoptera: Aphidiidae) a parasite of the pea aphid new in Southern Ontario.
4350

APHIS GOSSYPII
Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

APHYTIS LEPIDOSAPHES
Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

APIS MELLIFERA
The influence of the brood comb on food exchange between honeybee workers (Apis mellifera).
4486

Crithidia mellificae n. sp. an acidophilic trypanosomatid of the honey bee Apis mellifera.
4539

Honey bee recruitment to food sources: Olfaction or language.
4619

APOIDEA
Bees of the Nevada Test Site.
4355

APPLES
Fauna of the predator bugs (Hemiptera-Heteroptera) occurring on apple trees in the district of Poznan.
4532

Investigations of fauna overwintering in or under the bark of apple trees. Part II. Studies on Arachnida.
4534

Disease control in nonbearing orchards.
4699

Black spot of apple.
4700

DPA for scald control.
4715

Thiram thins Granny Smith apples.
4726

Hard-to-kill pests of fruit trees--woolly apple-aphid.
4747

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

Problems with scald inhibitors.
4863

AQUATIC ANIMALS
An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

Persistence and movement of parathion in irrigation waters.
4871

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

AQUATIC BIRDS
Pesticide residues in a marine population of double-crested cormorants.
4883

AQUATIC INSECTS
The infection of immature aquatic insects by larval Paragordius (Nematomorpha).
4620

ARACHNIDA
Investigations of fauna overwintering in or under the bark of apple trees. Part II. Studies on Arachnida.
4534

ARCHIPS ARGYROSPILUS
Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller).
4553

ARCTIIDAE
Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

ARGYNNIS
Remarks concerning the terminology of the genitalia armor in the genus Argynnis (S.L.). (Lepidoptera, Nymphalidae).
4573

ARSENIC
An analytical method for determining arsenic in biological material.
4900

ARTHROPODA
Bibliography of biological control. VIII.
4661

ASCARIS LUMBRICOIDES
Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

ASCARIS LUMBRICOIDES SUUM
Experimental infection of laboratory animals with Ascaris suum.
4855

ASCOMYCETES
Apomyelois bistriatella: A moth which feeds in an ascomycete fungus (Lepidoptera: Pyralidae).
4583

ASILIDAE
Taxonomic notes on the larva of British Diptera. no. 25, The larva and pupa of Dioctria rufipes (Degeer) (Asilidae).
4363

Ecological and morphological study of robber flies of the tribe Asilini (Diptera, Asilidae) with descriptions of new genera and species from Kazakhstan and Soviet Central Asia.
4548

ASPARAGUS
Thrips infesting the tips of asparagus spears.
4740

ASPIDIOTUS PERNICIOSUS
Drench your trees against San Jose scale.
4738

ASTEROLECANIIDAE
A new species of Asterolecanium Targ. (Homoptera: Coccoidea: Asterolecaniidae) from South Africa.
4387

ATRAZINE
Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

ATTRACTANTS
Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

AUTORADIOGRAPHY
New data on accumulation of S35 and Ru106 by dragonfly nymphs (Odonata).
4497

An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae).
4633

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings.
4903

AVIAN LEUKOSIS COMPLEX VIRUSES
The mode of formation of intracytoplasmic structures in tumors induced by viruses of the avian sarcoma leucosis group.
4824

AVIAN LYMPHOMATOSIS
Costing acute Mareks disease.
4828

AZINPHOSMETHYL
Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller).
4553

BABY PIGS
Sudden death in feeder pigs.
4816

BACILLUS CEREUS
Industrial tests of the biological preparation Entobacterin-3 in the USSR.
4489

Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

BACILLUS POPILLIAE
Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

BACILLUS THURINGIENSIS
Teratological effects on the nymphs and adults of insects, the larvae of which have ingested sublethal doses of the thermostable toxin of Bacillus thuringiensis Berliner.
4468

Classification of the strains of Bacillus thuringiensis.
4485

Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

Susceptibility of irradiated insects to Bacillus thuringiensis infection.
4519

Results of experiments carried out in Hungary with Bacillus thuringiensis.
4525

Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

Practical application of Bacillus thuringiensis.
4612

Caterpillar size and the dosage of Bacillus thuringiensis preparations.
4621

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

Heat-stable elements in commercial preparations based on Bacillus thuringiensis Berliner.
4924

The comparative actions of urea and thioglycolate on the representative toxin of Bacillus thuringiensis.
4933

BACTERIA
Results of field experiments carried out in 1954 and 1955 in switzerland concerning the microbial control of the larvae of Melolontha melolontha L.
4622

Occurrence of antibacterial and antifungal actinomycetes in cultivated soils of West Bengal.
4667

Bulk wheat pests can be controlled by simple precautions.
4866

Bacteriostatic properties of milk from tropical countries.
4868

Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

Problems in monitoring DDT and its metabolites in the environment.
4889

Tricarboxylic acid cycle activity in a pseudomonad.
4922

The biochemistry of Vibrio cholerae: Part IV. Acid soluble nucleotide constituents.
4927

Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

Intracellular localization and characteristics of lactate dehydrogenase activity of Salmonella typhosa (NCTC 8385).
4936

BACTERIAL DISEASES (ANIMALS)
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

Respiratory disease in the pig. II.
4798

Chromosome replication in Salmonella typhimurium.
4805

BACTERIAL DISEASES (PLANTS)
The problem of the potato blackleg disease.
4697

The influence of illumination on the development of tumors caused by Agrobacterium tumefaciens (Smith and Town) Conn. on pea seedlings, Pisum sativum L..
4707

The law of host-parasite balance in the process of pathogenesis and its implications in ecology.
4714

Bacterial leaf spot of chillies in Kerala State.
4719

Bacterial blight elmiminated from California gins.
4724

Chemical control of some important cereal plant diseases in India.
4727

Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

BACTERIAL LEAF BLIGHT
Host range of Xanthomonas oryzae in the Philippines.
4689

BACTERIAL LEAF SPOT
Bacterial leaf spot of chillies in Kerala State.
4719

BACTERIOLOGY
Classification of the strains of Bacillus thuringiensis.
4485

Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

BACTERIOSTATS
Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

BAITS
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

Sex lure hoax may prove male beet wireworm's undoing.
4765

BAKANAE DISEASE
Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

BANANAS
New fungicide promises effective and economical plant disease control.
4682

Co-operative spraying against banana pests.
4683

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

Nematodes attack bananas.
4768

BARBAN
Notice of filing of petition regarding pesticide chemical.
4879

BARK
Investigations of fauna overwintering in or under the bark of apple trees. Part II. Studies on Arachnida.
4534

Comandra blister rust of hard pines.
4711

BARLEY
The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

BEANS
Seed contamination in transmission of halo blight in beans.
4694

Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contact of roots.
4702

Rust infection protects beans against heat injury.
4732

BEAUVERIA
Results of field experiments carried out in 1954 and 1955 in switzerland concerning the microbial control of the larvae of Melolontha melolontha L.
4622

The reciprocal relationships in mixed cultures of entomophagous fungi and the effect of some Hyphomycetes on their growth.
4690

BEAUVERIA BASSIANA
The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

BEE BEHAVIOR
Brood care in halictine bees.
4529

BEES
Brood care in halictine bees.
4529

BEETS
On the influence of effluent of the starch factory upon the Yubetsu River and the Shokotsu river, and of effluent of the best factory upon the benthic animals in the Abashiri River (Hokkaido).
4955

BENEFICIAL INSECTS
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

Investigations of fauna overwintering in or under the bark of apple trees. Part II. Studies on Arachnida.
4534

The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France.
4544

BENLATE
New fungicide promises effective and economical plant disease control.
4682

BENZALDEHYDE
Benzaldehyde: Defensive secretion of a harvester ant.
4460

BENZENE
TLC spotting solvent for aflatoxins.
4938

BENZENE HEXACHLORIDE
Some pests of ornamental plants in Madras.
4735

Narcissus flies.
4748

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in people. Storage of DDT in the people of Israel.
4890

BETHYLIDAE
Laelius utilis Cockerell (Hymenoptera: Bethylidae) stinging a child at London, Ontario.
4651

BIBLIOGRAPHY
Bibliography of biological control. VIII.
4661

Form and mechanism of transmission of plant viruses. Transmission of viruses by arthropods.
4728

Form and mechanism of transmission of plant viruses. Transmission of viruses by nematodes.
4729

BILE
Choleresis in sheep.
4830

BIOCENOSIS
The effects of soil sterilization procedures on the microbiological equilibrium of the soil.
4672

BIOCHEMISTRY
Research on the odoriferous constituents of the terpenic fumes of various substances and their action on Ips sexdentatus Boerner (Coleoptera, Scolytidae).
4475

New data on accumulation of S35 and Ru106 by dragonfly nymphs (Odonata).
4497

Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

The nature of pathogenicity of Pseudomonas aeruginosa for Galleria mellonella.
4551

BIOLOGICAL ASSAY

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

Esterase and phosphatase polymorphism in natural population of wild silkworm, Theophila mandarina L.
4626

Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

Release of sialic acid from caseins of cow and buffalo milk by cow and buffalo rennets.
4791

Oxidative enzymes in Escherichia coli plasma membrane.
4792

Intermediate energy metabolism of Leptospira.
4796

Terminal electron transport in Leptospira.
4797

Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

Thermoresistant Clostridium perfringens of the A type in poultry.
4807

2-deoxyribose gene-enzyme complex in Salmonella typhimurium: Regulation of phosphodeoxyribomutase.
4818

Theory of classification of the densonucleose viruses , based on the study of molecular structures and physiochemical properties.
4823

The mode of formation of intracytoplasmic structures in tumors induced by viruses of the avian sarcoma leucosis group.
4824

Hormonal effect on certain glycolytic enzymes of rat mammary gland.
4831

Competitive development of enzymatic activity of transcriptase and replicase in the course of a viral disease in cattle.
4837

Cold-sensitive mutations in Salmonella typhimurium which affect ribosome synthesis.
4844

The pale muscle problem in pigs.
4845

Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

Tricarboxylic acid cycle activity in a pseudomonad.
4922

Polyguanylic acid and its effect on amino acid incorporation.
4925

The biochemistry of Vibrio cholerae: Part IV. Acid soluble nucleotide constituents.
4927

Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

The comparative actions of urea and thioglycolate on the representative toxin of Bacillus thuringiensis.
4933

Intracellular localization and characteristics of lactate dehydrogenase activity of Salmonella typhosa (NCTC 8385).
4936

Fatty acid composition of phosphatidyl ethanolamine of Mycobacterium tuberculosis.
4939

BIOLOGICAL ASSAY

Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

Practical application of Bacillus thuringiensis.
4612

Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

The determination of the embryo viability of weed seeds by the TTC method.
4917

Heat-stable elements in commercial preparations based on Bacillus thuringiensis Berliner.
4924

BIOLOGICAL CLOCKS

Circadian clock action spectrum in a photoperiodic moth.
4465

BIOLOGICAL CONTROL (INSECTS)

Are woodpeckers the answer to pine bark beetle attacks .
4450

The use of viruses in biological control.
4458

The introduction, release, and recovery of parasites of the alfalfa weevil in Eastern United States.
4466

Test on the use of Fusarium episphaeria f. coccophila (Desm.) Snyder and Hansen in the control of the California red scale , Aonidiella aurantii.
4483

Industrial tests of the biological preparation Entobacterin-3 in the USSR.
4489

Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

Results of experiments carried out in Hungary with Bacillus thuringiensis.
4525

Fauna of the predator bugs (Hemiptera-Heteroptera) occurring on apple trees in the district of Poznan.
4532

Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France.
4544

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Trans-ovum transmission of insect viruses as a biological control.
4600

Practical application of Bacillus thuringiensis.
4612

Virus multiplication.
4614

Results of field experiments carried out in 1954 and 1955 in switzerland concerning the microbial control of the larvae of Melolontha melolontha L.
4622

The biological control of red scale, Aonidiella aurantii (Mask.), on citrus in South Africa.
4741

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

Study of the virus disease of Neodiprion swainei Midd. and results of its aerial dispersion.
4758

Resistance of Lycopersicon species to the carmine spider mite.
4760

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

Search for new insecticides.
4893

BIOLOGICAL CONTROL (PESTS)

Bibliography of biological control. VIII.
4661

The meaning and definition of biological control.
4742

Biological control of snails exerted by Euglandina rosea (Ferussac) in Bermuda.
4786

A look at the plant pest control divison.
4887

BIOLOGICAL CONTROL (PLANT DISEASES)

Rhizosphere root exudates and their effect on microbial activity.
4662

Comandra blister rust of hard pines.
4711

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

BIOLOGICAL CONTROL (WEEDS)

Weeds and their control.
4782

BIOLOGICAL PRODUCTS

Industrial tests of the biological preparation Entobacterin-3 in the USSR.
4489

Practical application of Bacillus thuringiensis.
4612

Care and use of veterinary biologics.
4921

BIOLOGICAL TRANSPORT

New observations on the transport of intranuclear microorganisms, called Phi particles, by the spermatozoids in homopterous insects.
4556

BIOLOGY

The occurrence of Theognis occidentalis in the Midwestern United States (Heteroptera: Coreidae).
4592

BIOMETRY

Some biometrics in Pieris and Colias (Lepidoptera: Pieridae) in Quebec and Nova Scotia.
4502

BIOSYNTHESIS

A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin.
4645

Rhizosphere root exudates and their effect on microbial activity.
4662

Boron in plants: A biochemical role.
4912

BIRDS

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

BLABERUS CRANIIFER

The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

BLACK RUST

Role of potash application in reducing black rust of wheat.
4680

BLACK SPOT
Black spot of apple.
4700

Thiram thins Granny Smith apples.
4726

BLACK STEM
Black stem- the second stem disease of grains.
4734

BLACKBERRIES
Blackberry control near orchards and vegetable gardens.
4770

BLACKLEG
The problem of the potato blackleg disease.
4697

BLASTOPHAGUS PINIPERDA
The adaptability of Blastophagus piniperda L. (Col. Scolytidae) to various Pinus and the preferences of this insect in regard to these forest species.
4476

BLIGHT
New fungicide for potato blight.
4684

Bacterial blight elmiminated from California gins.
4724

BLISTER RUST
Comandra blister rust of hard pines.
4711

BLOOD
Immunochemical characterization of sheep plasma glycoprotein.
4838

Staphylococcal intoxication of young suckling whelps.
4840

BLOOD ANALYSIS
Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

Sideroleucocytes as a diagnostic aid in equine infectious anaemia.
4815

BLOOD CELLS
Ultrastructure of the hemocytes of Locusta migratoria (Orthoptera).
4512

BOMBYX
Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

BOMBYX MORI
Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

The problem of viral latency in insect tissue cultures.
4484

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

Cytoplasmic particles carrying rapidly labeled RNA in developing insect epidermis.
4523

An action of insect hormones on carbohydrate metabolism in insects.
4531

Some problems on developmental physiology in the silkworm egg.
4570

The role of the exuvial fluid swallowed before emergence, in the expansion of the wings of Bombyx mori L..
4572

Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

Physiological responses of insects to nicotine.
4623

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO2 gas.
4647

BORATES
Boron in plants: A biochemical role.
4912

BORIC ACID
Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

BORON
Boron in plants: A biochemical role.
4912

BOSTRYCHIDAE
Coleoptera of northeast Africa. Bostrychidae.
4374

BOTRYTIS
Effect of mixed spore inocula of Botrytis ssp. on lesion development in the leaves of bean (Vicia faba L.).
4718

BRACHIARIA MUTICA
Studies on Phyllosticta blight of rice.
4703

BRACONIDAE
Nearctic species of the genus Synaldis Foerster (Hymenoptera, Braconidae, Alysiinae).
4384

Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae).
4385

Identification of the braconid parasites of rice borers (Hymenoptera: Braconidae).
4440

Diapause in Apanteles congregatus.
4586

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

BRAIN
Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

BRASSICA
Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

BREEDING
Seasonal changes in the direction of mating in Drosophila melanogaster in the experiments with a natural inversion.
4636

Cultivation of the sapogenin-bearing Dioscorea species.
4664

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

Contributions to the (Diptera, Simuliidae) fauna of Austria. III. The fauna of the valley of the YBBS.
4851

BRENTIDAE
Coleoptera of northeast Africa. Brentidae.
4373

BROADBEANS
Effect of mixed spore inocula of Botrytis ssp. on lesion development in the leaves of bean (Vicia faba L.).
4718

BROMOPHENYL)-1-METHOXY-1-METHYLUREA, 3-(P
Test results with patoran.
4772

BRONZING
Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

BRUCHIDAE
Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

BUFFALOES
Release of sialic acid from caseins of cow and buffalo milk by cow and buffalo rennets.
4791

BUNCHY TOP
Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

BUPRESTIDAE
Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

BUSH REDPEPPERS (VEGETABLE)
Bacterial leaf spot of chillies in Kerala State.
4719

BUTTERMILK
The nourishment of milk calves is essential for the future of the product.
4787

CACAO
On the role of the phenol constituents in the course of infection of the cacaopods of Theobroma cacao L. by Phytophthora palmivora Butl..
4709

CADRA CAUTELLA
Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

CAECAL COCCIDIOSIS
The physio-pathology of chicken caecal coccidiosis: Experimental study of immunogenesis, action of specific antilymphocytic sera.
4809

CALCIUM CHLORIDE
How to prevent and remove mildew; home methods.
4959

CALCIUM HYPOCHLORITE
Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

CALLIPHORA VICINA
The possibilities of regulating the labial imaginal disc in Calliphora erythrocephala Meigen.
4594

Study of the corpus allatum in living larvae of the blow fly Calliphora erythrocephala Mg. (Diptera, Calliphoridae).
4606

CALLIPHORIDAE
The myiasis fly of the African aardvark (Orycteropus afer (Pallas)).
4852

CALLOSOBRUCHUS MACULATUS
Response of some stored-product insects to Trogoderma granarium pheromones.
4625

CALVES
The nourishment of milk calves is essential for the future of the product.
4787

CAMNULA PELLUCIDA
Synapsis and crossing over within a paracentric inversion in the grasshopper, Camnula pellucida.
4644

CAMPONOTUS
Food gathering behavior of the ant, Camponotus noveboracensis (Fitch) (Hymenoptera: Formicidae).
4499

CANINE DISTEMPER
Experiences about the tolerance and use of Stagloban in the dog.
4836

CANKER
Disease control in nonbearing orchards.
4699

CANTHARIDAE
New Malthodes from western North America (Coleoptera: Cantharidae).
4382

CAPTAN
Efficiency of some fungicides in the disinfection of the carnation roots.
4692

Disease control in nonbearing orchards.
4699

CARABIDAE
Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

Prothetely in Carabidae of the genus Pterostichus.
4577

CARBAMATES
Watch for the cereal leaf beetle.
4557

Don't take lightly these brinjal borers.
4759

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

CARBARYL
First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

Watch for the cereal leaf beetle.
4557

Thiram thins Granny Smith apples.
4726

Don't take lightly these brinjal borers.
4759

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

CARBOHYDRATES
Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

An action of insect hormones on carbohydrate metabolism in insects.
4531

CARBON DIOXIDE
Evidence of a variant of the vesicular stomatitis virus (Indiana strain) which confers a retarded sensitivity to carbonic gas in Drosophila melanogaster.
4584

Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO2 gas.
4647

Trials with carbon dioxide, light and growth substances on forest tree plants.
4909

CARBONATES
Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

CARICACEAE
Inter-species and inter-genera crosses in Caricaceas and their phytotechnical implications.
4696

CARPOCAPSA POMONELLA
Observations on the second generation of Carpocapsa in the Loire valley.
4496

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

CARYA ILLINOENSIS
Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

CASEIN
Release of sialic acid from caseins of cow and buffalo milk by cow and buffalo rennets.
4791

CASTORBEANS
A semi-synthetic diet for Eri-silkworm raising.
4492

CASTRATION
Some effects of castration on the protocerebral neurosecretion of the females of Polistes (Hymenoptera, Vespidae).
4601

CATALASE
Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

CATALOGS
A new Crompus from New Caledonia. (HemipteraHeteroptera: Lygaeidae).
4359

Chalicidoidea (Hymenoptera) in the Manchester Museum. Part 5.
4360

The Collembola of South Africa--2: The genus Seira.
4370

Coleoptera of northeast Africa. Brentidae.
4373

New species of Meromyza Mg. (Diptera, Chloropidae) from Transbaykalia.
4381

New Malthodes from western North America (Coleoptera: Cantharidae).
4382

Chrysomelid beetles from the Papuan subregion, 5 (Eumolpinae, 3).
4388

Lepidoptera of southern Spain.
4389

Burmese Ichneumoninae V. 32. Genus Naenaria Cameron.
4392

Hypocyphtus nitidus Palm (Col., Staphylinidae) in Oxforoshire: An addition to the British list.
4399

On the genus Dialineura Rondani, 1856 (Diptera, Therevidae).
4409

A review of darkling beetles of the tribe Leptodini (Coleoptera, Tenebrionidae).
4411

Ichneumonidae (Hymenoptera) collected in paddy fields of the Orient, with descriptions of new species. Part 2. Subfamilies Porizontinae, Metopiinae and Diplazontinae.
4412

New synonymy in the South African genus Synaptothrips Trybom (Thysanoptera) with a key to the species.
4414

New and little known armoured scales (Homopterai Diaspididae) from South Africa. 4.
4415

Records and descriptions of Palearctic and south Asiatic Laspeyresiini (Lepidoptera: Tortricidae).
4417

A revision of the subgenus Hirtodrosophila of the Old World, with descriptions of some new species and subspecies (Diptera, Drosophilidae, Drosophila).
4418

Stenus and Megalopinus Motschulsky genera and remarks on the subgenus Tesnus Rey, with a table of the Palearctic representatives (Coleoptera, Staphylinidae). (54. Contribution to the knowledge of the Stenus genus).
4423

Alticinae of New Guinea, III. Schenklingia and allies (Coleoptera: Chrysomelidae).
4428

On nocturnal darkling beetles of the genus Melanesthes Lac. (Scoleoptera, Tenebrionidae) from central Kazakhstan.
4431

Revision of the nominate subgenus Sceliphron Latreille (Hymenoptera, Sphecidae) (Studies on the Sceliphronini, part I).
4435

Taxonomy of the genus Paluda De Long 1937 (Homoptera Euscelidae).
4438

Identification of the braconid parasites of rice borers (Hymenoptera: Braconidae).
4440

The identity of the British Mondsynamma Scott 1864 (Hem., Miridae).
4442

Studies on the Japanese gall midges II, two new and a known species of the genus Camptomyia from Kyushu (Diptera: Cecidomyiidae).
4443

New species of Hypera (Coleoptera, Curculionidae) from the Crimean Mountains.
4444

New species of the genus Trachina Mg. (diptera, Tachnidae), parasites of injurious Lepidoptera in the Ussr.
4445

Aradidae in the Bishop Museum, Honolulu (HemipteraHeteroptera).
4533

Ecological and morphological study of robber flies of the tribe Asilini (Diptera, Asilidae) with descriptions of new genera and species from Kazakhstan and Soviet Central Asia.
4548

Outline of Syrian parasitology.
4790

CATERPILLARS
Observations on the second generation of Carpocapsa in the Loire valley.
4496

Electron microscope study of the virus of the granulosis of the fall webworm (Hyphantria cunea Drury).
4613

Caterpillar size and the dosage of Bacillus thuringiensis preparations.
4621

CATS
Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

CATTLE
First records of eye-frequenting moths from Ceylon.
4365

The warble fly.
4568

Virulence, adsorbability, and antigenicity of foot-and-mouth disease virus selected by adsorption with homogenized mouse kidney.
4802

Preliminary study of an intestinal virus isolated from a lesion in baland-posthite cattle.
4810

Axis cylinder degeneration associated with ryegrass staggers in sheep and cattle.
4825

The epizootiological importance of foot-and-mouth disease carriers. II. The carrier status of cattle exposed to foot-and-mouth disease following vaccination with an oil adjuvant inactivated virus vaccine.
4827

Protection against Rinderpest conferred to cattle by an inactivated virus adapted to cattle cells.
4835

Competitive development of enzymatic activity of transcriptase and replicase in the course of a viral disease in cattle.
4837

Control of bovine tuberculosis and list of officially certified herds.
4846

Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

CATTLE RECORDS
Control of bovine tuberculosis and list of officially certified herds.
4846

CECIDOMYIIDAE
Studies on the Japanese gall midges II, two new and a known species of the genus Camptomyia from Kyushu (Diptera: Cecidomyiidae).
4443

Regulation of growth of nurse nuclei in the development of egg follicles in Cecidomyiidae (Diptera).
4564

CELL NUCLEUS
The existence of inclusions which have a lamella ultrastructure in the nucleus of certain bacteriocytes in the adipose tissue of Periplaneta americana (Insecta, Blattidae).
4498

Proton magnetic resonance spectra of some phenyl-phosphorus compounds.
4931

CELLS
Transdetermination in cells.
4637

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

Axis cylinder degeneration associated with ryegrass staggers in sheep and cattle.
4825

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

Intracellular localization and characteristics of lactate dehydrogenase activity of Salmonella typhosa (NCTC 8385).
4936

CENTAUREA CYANUS
Test results with patoran.
4772

CENTRIFUGATION
Research on the oncogenic constituents of three zones of hemagglutinating activity, obtained by centrifugation of polyoma virus purified in density gradients with cesium chloride.
4806

CERAMBYCIDAE
A contribution to the knowledge of the Cerambycidae and the Oedemeridae of Iran.
4394

Chromosome numbers of some central European Cerambycidae. II.
4648

CERATITIS CAPITATA
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

The regulatory capacity of the dorsal mesothoracic disc in Ceratitis capitata Wied (Diptera, Trypetidae).
4480

CERATOPHYLLUS FASCIATUS
The effects of pantothenic acid, pantoyltaurine, salicylate and related compounds on the in vitro and in vivo growth of Trypanosoma lewisi.
4839

CERATOPOGONIDAE
Attack activity of two species of gnats in southern California.
4490

CERCOPIDAE
The accumulation of ferritin in the nuclei and cytoplasm of certain mesenteron cells in old Homoptera Cercopidae.
4500

CERCOSPORA BETICOLA
Sugar beet crop protected through aerial application.
4721

CERCOSPORA LHUILLIERI
Contribution to the study of a parasitic complex which attaches itself to the exposed parts of cotton plants and causes their withering.
4712

CEREBROSIDES
Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

CEROPLASTES FLORIDENSIS
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

CHALCEDECTES NIGER
New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar.
4391

CHALCEDECTOIDES SAHARENSIS
New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar.
4391

CHALCIDOIDEA
Chalicidoidea (Hymenoptera) in the Manchester Museum. Part 5.
4360

CHEMICAL ANALYSIS
An analytical method for determining arsenic in biological material.
4900

Efficiency parameters of gas chromatography columns used in pesticide residue analysis.
4923

CHEMICAL CONTROL (INSECTS)
The boll weevil; How to control it. Part II.
4348

Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

Termite control in rubber plantations.
4521

Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller).
4553

Watch for the cereal leaf beetle.
4557

The warble fly.
4568

Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO2 gas.
4647

Some pests of ornamental plants in Madras.
4735

Drench your trees against San Jose scale.
4738

Control of date palm leafhoppers in Iraq by aerial spraying.
4739

Insect and mite control on nursery stock in Ohio.
4743

The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

Hard-to-kill pests of fruit trees--woolly apple-aphid.
4747

Narcissus flies.
4748

Results of a study on controlling Tipula olercea L. showing a marked resistance to some chlororganic insecticides.
4750

Influence of infestation by early shoot borer Chilotraea infuscatellus Sn. on shoot production and yield of sugarcane.
4751

Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

Don't take lightly these brinjal borers.
4759

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultrual commodities. Dodecachlorooctahydro-1,3,4-metheno-2th-cyclobuta (cd) pentalene.
4882

Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

Search for new insecticides.
4893

Aircraft operations in the Colusa project.
4944

The pesticide review.
4952

CHEMICAL CONTROL (NEMATODES)
Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.).
4766

The role of nematodes in horticulture.
4767

Fumigants and specific nematocides in the control of phytophagous nematodes.
4769

Prevent worms to increase sheep profits.
4856

CHEMICAL CONTROL (PESTS)
Diazinon against plant pests.
4655

Needed: A miracle method for soil borne disease control.
4695

Insect and mite control on nursery stock in Ohio.
4743

Sex lure hoax may prove male beet wireworm's undoing.
4765

Our struggle against pests. II.
4872

A synopsis of the pesticide problem.
4899

Ag firm concentrates on waterless spraying.
4943

The machinery generally used for efficient sterilization and disinfestation of the soil.
4945

The pesticide review.
4952

CHEMICAL CONTROL (PLANT DISEASES)
Role of potash application in reducing black rust of wheat.
4680

CHEMICAL CONTROL (WEEDS)

New fungicide promises effective and economical plant disease control. 4682

New fungicide for potato blight. 4684

Efficiency of some fungicides in the disinfection of the carnation roots. 4692

DPA for scald control. 4715

Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato. 4716

Sugar beet crop protected through aerial application. 4721

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control. 4722

Thiram thins Granny Smith apples. 4726

Chemical control of some important cereal plant diseases in India. 4727

Black stem- the second stem disease of grains. 4734

Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate. 4911

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L). 4919

The pesticide review. 4952

CHEMICAL CONTROL (WEEDS)

Annual report of the Department of Agriculture for the year 1962/63. (II). 4665

Black spot of apple. 4700

Blackberry control near orchards and vegetable gardens. 4770

Studies on chemical weed control with fodder kale. 4771

Test results with patoran. 4772

Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966. 4774

Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966. 4775

Response of mixed crop of wheat and rape to three chlorophenoxy herbicides. 4777

Weed control studies in strawberries. 4779

Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards. 4780

Weed control in potato cultures without adverse effects on the potato quality. 4781

Weeds and their control. 4782

Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966. 4785

The pesticide review. 4952

Part II proposed for paraquat. 4962

The law and the use of pesticides. 4964

CHEMICAL REACTIONS

Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B. 4673

Note on modifications of the AOAC method for amprolium in feed concentrates. 4895

Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II. 4913

Structure of Klein's metabolites of aldrin and of dieldrin. 4926

Synthesis of substances related to gibberellins. Part XVIII. Total synthesis of (plus or minus) gibberellins A A subscript 4, A subscript 9, and A subscript 10. 4935

TLC spotting solvent for aflatoxins. 4938

Effects of chemical preservatives and storage on constituents used to characterize lemon juice. 4940

CHEMICALS

The boll weevil; How to control it. Part II. 4348

Chemical control of some important cereal plant diseases in India. 4727

Chromosome replication in Salmonella typhimurium. 4805

Persistence and movement of parathion in irrigation waters. 4871

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food. 4874

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog. 4881

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida. 4884

Problems in monitoring DDT and its metabolites in the environment. 4889

Use insecticides safely. 4901

Synthesis of substances related to gibberellins. Part XVIII. Total synthesis of (plus or minus) gibberellins A A subscript 4, A subscript 9, and A subscript 10. 4935

Theory of disinfectant testing. 4941

Some factors affecting the choice of materials for chemical plant equipment. 4947

Sodium tri-polyphosphate carried by tanker. 4950

The pesticide review. 4952

Our struggle against pests. 4960

CHEMISTRY

Immunochemical characterization of sheep plasma glycoprotein. 4838

Imidazole: Fungitoxic derivatives. 4902

Proton magnetic resonance spectra of some phenyl-phosphorus compounds. 4931

Theory of disinfectant testing. 4941

CHEMORECEPTORS

Electrophysiological study of contact chemoreceptors in bloodsucking Diptera. 4624

CHENOPODIUM ALBUM

Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966. 4774

CHERMES PICEAE

First occurrence of balsam woolly aphid in the interior of British Columbia. 4441

CHERRIES

Disease control in nonbearing orchards. 4699

CHEYLETIDAE

Chelacheles michalskii n. sp. (Acari, Cheyletidae). 4427

CHICKEN TYPES (MEAT)

Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966. 4795

CHICKENS

The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis. 4720

The physio-pathology of chicken caecal coccidiosis: Experimental study of immunogenesis, action of specific antilymphocytic sera. 4809

The mode of formation of intracytoplasmic structures in tumors induced by viruses of the avian sarcoma leucosis group. 4824

Costing acute Mareks disease. 4828

Persistance of the genome of the Rous virus in hamster cells changed in vitro, and the action of inactivated Sendai virus on its transmission to chick cells. 4848

CHICKS

Studies on the treatment and prophylaxis of Salmonella pullorum infection in chicks with chloromycetin. 4820

CHILO SUPPRESSALIS

Identification of the braconid parasites of rice borers (Hymenoptera: Braconidae). 4440

CHILOTRAEA INFUSCATELLUS

Influence of infestation by early shoot borer Chilotraea infuscatellus Sn. on shoot production and yield of sugarcane. 4751

CHIRONOMIDAE

Abundance and microdistribution of larval Chironomidae in stabilization lagoons. 4432

CHLORAMPHENICOL

Studies on the treatment and prophylaxis of Salmonella pullorum infection in chicks with chloromycetin. 4820

CHLORINATED HYDROCARBONS

Biology and control of native and introduced forest insects in the Nearctic Zone. 4375

Specificity in insecticides. 4507

An autoradiographic study of invertebrate uptake of DDT-CL36. 4618

Some pests of ornamental plants in Madras. 4735

Results of a study on controlling Tipula olercea L. showing a marked resistance to some chlororganic insecticides. 4750

Don't take lightly these brinjal borers.
4759

Weed control studies in strawberries.
4779

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Persistence of DDT in crayfish in a natural environment.
4878

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

Pesticide residues in a marine population of double-crested cormorants.
4883

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticides in people. Storage of DDT in the people of Israel.
4890

Pesticide residues in cultivated mushrooms.
4891

Search for new insecticides.
4893

CHLORINE
An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

CHLOROETHYL)TRIMETHYLAMMONIUM CHLORIDE, (2-
Growth retardant tests on potted poinsettias.
4905

The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

CHLOROFORM
Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

TLC spotting solvent for aflatoxins.
4938

CHLOROPHENYL)-1-METHOXY-1-METHYL-UREA, 3-(P
Weed control in potato cultures without adverse effects on the potato quality.
4781

CHLOROPICRIN
Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

CHLOROPIDAE
New species of Meromyza Mg. (Diptera, Chloropidae) from Transbaykalia.
4381

CHLOROSIS
The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
4685

CHLORTETRACYCLINE
Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966.
4795

CHOLESTEROL
Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

CHOLINE
Dietary choline requirements, phospholipids and development in Phormia regina.
4511

CHORTHIPPUS PARALLELUS
Parallel polymorphism for supernumerary segments in Chorthippus parallelus (Zetterstedt). I. British populations.
4638

CHROMATIN
Sex chromatin in Lepidoptera.
4649

CHROMATOGRAPHY
Isolation and a study of the mode of action of a polygalacturonase in insects (Pyrrhocoris apterus).
4482

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin.
4645

Diagnoses of pear decline and rootstock identification in young pear orchards.
4687

Pesticides in water, Pesticides in selected western streams--A contribution to the national program.
4870

Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

The determination of the amount of diazinon residues in foodstuff by means of labeled diazinon. (Summary).
4877

Persistence of DDT in crayfish in a natural environment.
4878

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

Pesticides in people. Storage of DDT in the people of Israel.
4890

Note on modifications of the AOAC method for amprolium in feed concentrates.
4895

Efficiency parameters of gas chromatography columns used in pesticide residue analysis.
4923

Structure of Klein's metabolites of aldrin and of dieldrin.
4926

Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

Variation of Florisil activity: Simple method for measuring adsorbent capacity and its use in standardizing Florisil columns.
4934

Synthesis of substances related to gibberellins. Part XVIII. Total synthesis of (plus or minus) gibberellins A A subscript 4, A subscript 9, and A subscript 10.
4935

TLC spotting solvent for aflatoxins.
4938

CHROMOSOMES
Chromosome studies and systematics of Gryllinae (Insecta Orthoptera).
4404

The chromosome formula of the cave Orthoptera Troglophilus neglectus (Rhaphidophoridae).
4590

Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

A specific chromosome element, the telomere of Drosophila polytene chromosomes.
4628

On the structure of the salivary chromosomes of Bilobella massoudi Cassagnau (Collembola: Neanuridae).
4630

Extra replications in the DNA-PUFFS of Sciara coprophila.
4631

The salivary gland chromosomes of the mosquito Culex pipiens. I. The normal chromosome complement.
4632

Seasonal changes in the direction of mating in Drosophila melanogaster in the experiments with a natural inversion.
4636

Patterns and pathways of chromosome evolution within the Orthoptera.
4640

Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

Synapsis and crossing over within a paracentric inversion in the grasshopper, Camnula pellucida.
4644

Chromosome numbers of some central European Cerambycidae. II.
4648

Chromosome replication in Salmonella typhimurium.
4805

CHRYSOMELIDAE
Chrysomelid beetles from the Papuan subregion, 5 (Eumolpinae, 3).
4388

Systematics of the Cryptocephalinae (Coleoptera, Chrysomelidae) from Soviet Central Asia and Kazakhstan.
4408

Alticinae of New Guinea, III. Schenklingia and allies (Coleoptera: Chrysomelidae).
4428

Watch for the cereal leaf beetle.
4557

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Some pests of ornamental plants in Madras.
4735

CICADELLIDAE
Study of the genus Rhytidodus Fieb. (Homoptera, auchenorrhyncha) with description of two new species from the Soviet Union.
4357

Taxonomy of the genus Paluda De Long 1937 (Homoptera Euscelidae).
4438

Coenosia lineatipes Zett. (Dipt., Muscidae) preying on Typhlocyba cruenta H. S. (Hem., Cicadellidae).
4448

New observations on the transport of intranuclear microorganisms, called Phi particles, by the spermatozoids in homopterous insects.
4556

Notes on insect and gastropode damage to enclosed cotton plantations.
4671

CICADIDAE

Control of date palm leafhoppers in Iraq by aerial spraying.
4739

CICADIDAE
On the investigative methods of the sound characteristics of small cicadas (Homoptera-Cicadina).
4603

CITRUS
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

The biological control of red scale, Aonidiella aurantii (Mask.), on citrus in South Africa.
4741

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

CLEANUP
Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides.
4942

CLIMATE
On a collection of termites from Daman.
4369

Observations on the second generation of Carpocapsa in the Loire valley.
4496

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

CLOSTRIDIUM PERFRINGENS BACTERIN
Thermoresistant Clostridium perfringens of the A type in poultry.
4807

COBALT ISOTOPES
Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

COCCIDAE
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

COCCIDIOSIS
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

COCCINELLIDAE
The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

COCCOIDEA
Further notes on the genus Pulvinaria Targ. (Homoptera: Coccoidea) from the Ethiopian region.
4396

A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

COENOSIA LINEATIPES
Coenosia lineatipes Zett. (Dipt., Muscidae) preying on Typhlocyba cruenta H. S. (Hem., Cicadellidae).
4448

COENUROSIS
Axis cylinder degeneration associated with ryegrass staggers in sheep and cattle.
4825

COENZYMES
Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

COFFEE
1967 field trials on control of coffee berry disease in Kenya. I.-V.
4698

The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

COFFEE BERRY DISEASE
1967 field trials on control of coffee berry disease in Kenya. I.-V.
4698

COLEOPTERA
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

Electrophysiological evidence of the tactile function of the sensillary trichia on the antenna of the Speophyes lucidulus Delarouzee (cave Coleoptera) larva.
4479

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Orientation of carrion beetles to carrion: Random or nonrandom .
4598

COLIAS EURYTHEME
Some biometrics in Pieris and Colias (Lepidoptera: Pieridae) in Quebec and Nova Scotia.
4502

COLIAS PHILODICE
Some biometrics in Pieris and Colias (Lepidoptera: Pieridae) in Quebec and Nova Scotia.
4502

COLLEMBOLA
The Collembola of South Africa--2: The genus Seira.
4370

The Collembola of South Africa--I: The genus Neanura.
4371

The action of different temperatures on the duration of postembryonic development and the duration between molts in adults of six species of epigeous and cave Collembola, Hypogastruridae.
4609

On the structure of the salivary chromosomes of Bilobella massoudi Cassagnau (Collembola: Neanuridae).
4630

COLLETOTRICHUM COFFEANUM
1967 field trials on control of coffee berry disease in Kenya. I.-V.
4698

COLLOPS
The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

COLOR
Choice of resting site by Noctuidae (Lepidoptera).
4352

Study of the phototrophism of the Noctuidae (Lepidoptera). Research on the variation of behavior following the frequency of intermittent monochromatic illumination.
4487

Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

The pale muscle problem in pigs.
4845

COLOSTRUM
The nourishment of milk calves is essential for the future of the product.
4787

COLUMNS (PROCESS)
Note on modifications of the AOAC method for amprolium in feed concentrates.
4895

Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

COMPLEMENT FIXATION
Fluorescent antibody techniques for vesicular stomatitis virus.
4799

CONFERENCES
Pessimism over crop diseases.
4679

Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966.
4725

Collection of reports given at the International Herbicide Conference. Prague, Czechoslovakia, 21-24 June 1966.
4784

NPCA conference speakers hit PCO pricing methods.
4949

CONIDIA
Morphology and mode of germination of conidia of Helminthosporium oryzae in relation to its taxonomy.
4657

CONSTRUCTION MATERIALS
Some factors affecting the choice of materials for chemical plant equipment.
4947

CONSUMER PREFERENCES
Here we go again... Pesticides under fire from new consumer group.
4873

CONSUMPTION
The pesticide review.
4952

CONTAINERS
Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

CONTROL EQUIPMENT
A look at the plant pest control divison.
4887

COPHOPODISMA PYRENAEA
Intraspecific qualitative and quantitative variations of the hemolymph proteins of Cophopodisma pyrenae (Fisch.), (Orthoptera, Catantopidae) as a function of biogeographic area.
4562

COPPER SULFATE
Sugar beet crop protected through aerial application.
4721

COREIDAE
The occurrence of Theognis occidentalis in the Midwestern United States (Heteroptera: Coreidae).
4592

CORN
Watch for the cereal leaf beetle.
4557

Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

CORPORA ALLATA
Histochemical data on the neurosecretory allata terminations in Antheraea pernyi Guer. (Lepidoptera, Attacidae) and in Rhodnius prolixus Stal. (Hemiptera, Reduviidae).
4469

Comparative effects of allatectomy on the activity of the male accessory glands and on the sexual behavior of two acridids: Schistocerca gregaria and Locusta migratoria (sub-species migratorioides and Razalinsk).
4470

The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

The mode of action of the corpora allata in the course of yolk formation in Tenebrio molitor (Coleoptera).
4542

CORPORA CARDIACA
The influence of the corpora cardiaca on the duration of the fourth and fifth instars of Locusta migratoria L..
4473

Cardiac activity of Locusta migratoria in vitro and the influence of the corpora cardiaca. Perfection of an experimental method and preliminary results.
4474

CORROSION
Some factors affecting the choice of materials for chemical plant equipment.
4947

COSSIDAE
Observations on Cossus cossus L. (Cossidae).
4549

COSSUS COSSUS
Observations on Cossus cossus L. (Cossidae).
4549

COSTS
Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4775

COTTON
Breeding work for the creation of glandless cotton varieties in chad.
4654

Notes on insect and gastropode damage to enclosed cotton plantations.
4671

Contribution to the study of a parasitic complex which attaches itself to the exposed parts of cotton plants and causes their withering.
4712

Spider mites on cotton; how to control them.
4737

The cotton farmer of the year .
4953

Plant and profit in '68.
4963

COTTON GINS
Bacterial blight elmiminated from California gins.
4724

COTTONSEED
Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

CRANBERRY BOGS
Persistence and movement of parathion in irrigation waters.
4871

CRAYFISH
Persistence of DDT in crayfish in a natural environment.
4878

CREOSOTE
Preservative treatments and service life of fence posts in Puerto Rico.
4658

CRITHIDIA MELLIFICAE
Crithidia mellificae n. sp. an acidophilic trypanosomatid of the honey bee Apis mellifera.
4539

CRONARTIUM COMANDRAE
Comandra blister rust of hard pines.
4711

CROP LOSSES
Plant protection in agriculture.
4670

Needed: A miracle method for soil borne disease control.
4695

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

CROP ROTATION
Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

Black stem- the second stem disease of grains.
4734

The role of nematodes in horticulture.
4767

Test results with patoran.
4772

Weeds and their control.
4782

Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

CROP VARIETIES
Breeding work for the creation of glandless cotton varieties in chad.
4654

Research possibilities and the improvement of the carnation cultivated as a cut flower.
4656

Cultivation of the sapogenin-bearing Dioscorea species.
4664

The resistance of Fx and IAN rubber clones to leaf diseases in Brazil.
4693

Studies on Phyllosticta blight of rice.
4703

The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

Hard-to-kill pests of fruit trees--woolly apple-aphid.
4747

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

Resistance of Lycopersicon species to the carmine spider mite.
4760

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

CROP YIELDS
Research possibilities and the improvement of the carnation cultivated as a cut flower.
4656

The use of growth promoters to increase potato yields.
4677

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

Sugar beet crop protected through aerial application.
4721

Thiram thins Granny Smith apples.
4726

Influence of infestation by early shoot borer Chilotraea infuscatellus Sn. on shoot production and yield of sugarcane.
4751

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

Attack on moco cotton by pink bollworm in Ceara.
4756

The cotton farmer of the year .
4953

Plant and profit in '68.
4963

CROPS
Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

Plant protection in agriculture.
4670

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

CROWN GALL TUMORS
The influence of illumination on the development of tumors caused by Agrobacterium tumefaciens (Smith and Town) Conn. on pea seedlings, Pisum sativum L..
4707

CROWN GALLS
Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

CRYPTOGAMIA
Cryptogama diseases of the root system. Prevention and control.
4681

CTENOPHTHALMUS
Intranuclear crystals in the midgut epithelium of a flea.
4589

CULEX
Aircraft operations in the Colusa project.
4944

CULEX PIPIENS
The salivary gland chromosomes of the mosquito Culex pipiens. I. The normal chromosome complement.
4632

CULICIDAE
Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

Aircraft operations in the Colusa project.
4944

CULTURAL CONTROL (PLANT DISEASES)
Cryptogama diseases of the root system. Prevention and control.
4681

Several measures used to combat fruit plant viruses.
4731

CULTURAL CONTROL (WEEDS)
Weed control in potato cultures without adverse effects on the potato quality.
4781

Weeds and their control.
4782

CULTURE MEDIA
Crithidia mellificae n. sp. an acidophilic trypanosomatid of the honey bee Apis mellifera.
4539

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). The importance of the composition of the medium for survival, growth, and yolk formation.
4541

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). Growth and yolk formation.
4546

A new culture method for Rhynchosciara.
4563

Research possibilities and the improvement of the carnation cultivated as a cut flower.
4656

General method for the culture of helminths in anaerobic conditions.
4854

CURCULIONIDAE

Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

CURCULIONIDAE
The northern species of Coleoptera group Bagous (Curculionidae) together with a taxonomic key (principally for the service of young entomologists).
4364

The identity of Sitophilus oryzae.
4462

On parthenogenic reproduction in Arammichnus cribricollis Gyll (Insecta Coleoptera Curculionidae).
4463

Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

CURLY TOP
Germination of Russian thistle seeds.
4916

CURRANTS
The viruses of the black and red currant.
4705

CURVULARIA
Fairway disease control.
4674

CUSCUTA
Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contact of roots.
4702

CUTICLE
Evidence for important intercellular spaces in the hypodermis and paracrystalline formations in the exuvial liquid of the larvae of Galleria mellonella L. (Lepidoptera Pyralidae) during the formation of the cuticle.
4455

Concerning the extraocular light sensitivity of the Dictyoptera: Evidence of photoreceptors associated with the tegumentary nerves.
4464

Cytoplasmic particles carrying rapidly labeled RNA in developing insect epidermis.
4523

Some problems on developmental physiology in the silkworm egg.
4570

Study of the tegumentary glands and their secretory cycle in the larva of Tipula flavolineata Meig..
4579

Electrical resistance of intact integument throughout the molt cycle of a cockroach.
4593

CYNODON DACTYLON
Fungus diseases of bermudagrass and overseeded coolseason grasses on golf greens.
4730

CYPHON
New Palearctic species of the genus Cyphon Payk. IV. Studies on the Helodidae family. IX.
4416

CYTOCHROMES
Terminal electron transport in Leptospira.
4797

CYTOGENETICS
Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

A specific chromosome element, the telomere of Drosophila polytene chromosomes.
4628

On the structure of the salivary chromosomes of Bilobella massoudi Cassagnau (Collembola: Neanuridae).
4630

Extra replications in the DNA-PUFFS of Sciara coprophila.
4631

The salivary gland chromosomes of the mosquito Culex pipiens. I. The normal chromosome complement.
4632

DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae).
4633

Patterns and pathways of chromosome evolution within the Orthoptera.
4640

Tritium labelling and cytochemistry of extra DNA in Acheta.
4642

The karyotype of some Australian species of Macropathinae (Gryllacridoidea--Rhaphidophoridae).
4643

Synapsis and crossing over within a paracentric inversion in the grasshopper, Camnula pellucida.
4644

Sex chromatin in Lepidoptera.
4649

CYTOLOGY
Cytoplasmic particles carrying rapidly labeled RNA in developing insect epidermis.
4523

Spermiogenesis in Aedes aegypti (L.).
4536

Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

The presence of particles with the appearance of nucleocapsids associated with mitochrondrites in the cells of a hamster infected with Rous virus.
4812

Ultrastructure of homogeneous bodies and cellular bodies during the course of rickettsial infections.
4813

CYTOPATHOLOGY
Characterization of a small porcine DNA virus.
4826

D, 2,4-
Finesse in weed control.
4778

Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

Weeds and their control.
4782

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.).
4920

DACTHAL
Weed control studies in strawberries.
4779

DACUS OLEAE
Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae).
4615

DACUS ZONATUS
Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

DAIRY BARNS
The nourishment of milk calves is essential for the future of the product.
4787

DAIRY CATTLE
Release of sialic acid from caseins of cow and buffalo milk by cow and buffalo rennets.
4791

Observations on the practical use of the rapid mastitis test.
4821

DAIRY PRODUCTS
Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

DARKNESS
The action of dark phases of varying durations in the circadian, ultra- and infra-circadian rhythms on the production of winged gynophores of Dysaphis plantaginea Pass. (Homoptera, Aphididae).
4461

DATES
Control of date palm leafhoppers in Iraq by aerial spraying.
4739

DDT
Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

Specificity in insecticides.
4507

An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

Some pests of ornamental plants in Madras.
4735

Don't take lightly these brinjal borers.
4759

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Persistence of DDT in crayfish in a natural environment.
4878

Pesticide residues in a marine population of double-crested cormorants.
4883

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticides in people. Storage of DDT in the people of Israel.
4890

Pesticide residues in cultivated mushrooms.
4891

DDT: Sublethal effects on brook trout nervous system.
4892

Search for new insecticides.
4893

DEATH
Sudden death in feeder pigs.
4816

Part II proposed for paraquat.
4962

DECLINE
Diagnoses of pear decline and rootstock identification in young pear orchards.
4687

DEFOLIANTS
Thiram thins Granny Smith apples.
4726

The dipyridillics in tomato cultures.
4914

DEFOLIATION
Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4775

DEGRADATION
Inactivation of juvenile hormone like compounds in insects.
4501

Water pollution laws called ambiguous weak .
4961

DEHYDROGENASES
Boron in plants: A biochemical role.
4912

Intracellular localization and characteristics of lactate dehydrogenase activity of Salmonella typhosa (NCTC 8385).
4936

DELPHACIDAE
Polymorphism in males of the sugarcane leafhopper, Perkinsiella saccharicida.
4576

DEMOGRAPHY
Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

DENDROCTONUS OBESUS
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

DEOXYRIBONUCLEASES
Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster.
4629

DEOXYRIBONUCLEIC ACID
Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

Extra replications in the DNA-PUFFS of Sciara coprophila.
4631

DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae).
4633

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

Tritium labelling and cytochemistry of extra DNA in Acheta.
4642

Chromosome replication in Salmonella typhimurium.
4805

2-deoxyribose gene-enzyme complex in Salmonella typhimurium: Regulation of phosphodeoxyribomutase.
4818

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

DERMACENTOR ALBIPICTUS
The first discovery of free-living larvae of the ear tick, Otobius megnini (Duges), in British Columbia.
4424

DERMACENTOR ANDERSONI
The first discovery of free-living larvae of the ear tick, Otobius megnini (Duges), in British Columbia.
4424

Pest-management concepts and control of tick paralysis in British Columbia.
4849

DERMESTES MACULATUS
Response of some stored-product insects to Trogoderma granarium pheromones.
4625

DESMETRYNE
Studies on chemical weed control with fodder kale.
4771

DETERGENTS
Effects of chronic exposure to zinc on toxicity of a mixture of detergent and zinc.
4894

DEVELOPMENT
The influence of the corpora cardiaca on the duration of the fourth and fifth instars of Locusta migratoria L..
4473

The regulatory capacity of the dorsal mesothoracic disc in Ceratitis capitata Wied (Diptera, Trypetidae).
4480

Dietary choline requirements, phospholipids and development in Phormia regina.
4511

Regulation of growth of nurse nuclei in the development of egg follicles in Cecidomyiidae (Diptera).
4564

Prothetely in Carabidae of the genus Pterostichus.
4577

Data in evidence of a retardation of development of Drosophila melanogaster by a reduction in the natural environmental radiation.
4582

The action of different temperatures on the duration of postembryonic development and the duration between molts in adults of six species of epigeous and cave Collembola, Hypogastruridae.
4609

Tritium labelling and cytochemistry of extra DNA in Acheta.
4642

Larval development of a nematode parasite of the dog circulatory system in dulcaquicoles mollusks.
4857

DIAGNOSIS
Diagnoses of pear decline and rootstock identification in young pear orchards.
4687

Respiratory disease in the pig. II.
4798

Fluorescent antibody techniques for vesicular stomatitis virus.
4799

The focal distribution of lesions of porcine hypernatremic eosinophilic meningo-encephalitis for diagnostic purposes.
4803

Sideroleucocytes as a diagnostic aid in equine infectious anaemia.
4815

Observations on the practical use of the rapid mastitis test.
4821

Costing acute Mareks disease.
4828

Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases.
4829

Incidence of hydatosis in livestock in Lahore.
4842

The pale muscle problem in pigs.
4845

Prevent worms to increase sheep profits.
4856

Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

DIANTHUS CARYOPHYLLUS
Research possibilities and the improvement of the carnation cultivated as a cut flower.
4656

Efficiency of some fungicides in the disinfection of the carnation roots.
4692

DIAPAUSE
Circadian clock action spectrum in a photoperiodic moth.
4465

Observations on the second generation of Carpocapsa in the Loire valley.
4496

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

An action of insect hormones on carbohydrate metabolism in insects.
4531

Diapause in Apanteles congregatus.
4586

DIARRHEA
Thermoresistant Clostridium perfringens of the A type in poultry.
4807

DIASPIDIDAE
New and little known armoured scales (Homopterai Diaspididae) from South Africa. 4.
4415

DIAZINON
Diazinon against plant pests.
4655

The determination of the amount of diazinon residues in foodstuff by means of labeled diazinon. (Summary).
4877

Pesticide residues in cultivated mushrooms.
4891

A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure.
4937

DICAMBA
Finesse in weed control.
4778

DICHLORO-2,2-BIS(P-CHLOROPHENYL) ETHYLENE, 1,1-
Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Pesticide residues in a marine population of double-crested cormorants.
4883

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in people. Storage of DDT in the people of Israel.
4890

DICHLOROPHENOXY)BUTYRIC ACID, 4-(2,4-
Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

DICHLOROPROPENE, 1,3-
Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

DICHLORVOS
Control of date palm leafhoppers in Iraq by aerial spraying.
4739

DIELDRIN
Termite control in rubber plantations.
4521

Narcissus flies.
4748

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticides in people. Storage of DDT in the people of Israel.
4890

Structure of Klein's metabolites of aldrin and of dieldrin.
4926

DIETHYL O-3,5,6-TRICHLORO-2-PYRIDYL PHOSPHOROTHIOATE, O,O
Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

DIFFUSION
Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

DIFOLATAN
1967 field trials on control of coffee berry disease in Kenya. I.-V.
4698

DIGITARIA
Finesse in weed control.
4778

DIMETHOATE
Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

Pesticide residues in cultivated mushrooms.
4891

DIMETHYLAMINOSUCCINAMIC ACID, N
Growth retardant tests on potted poinsettias.
4905

DINITRO-O-SEC-AMYLPHENOL
Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides.
4942

DINITROBUTYLPHENOL
Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides.
4942

DINITROCRESOL
Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides.
4942

DINITROPHENOLS
Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides.
4942

DINOCAP
Disease control in nonbearing orchards.
4699

DINOSEB
Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

DIOCTRIA RUFIPES
Taxonomic notes on the larva of British Diptera. no. 25, The larva and pupa of Dioctria rufipes (Degeer) (Asilidae).
4363

DIPAROPSIS
Breeding work for the creation of glandless cotton varieties in chad.
4654

DIPHENAMID
Weed control studies in strawberries.
4779

DIPTERA
Taxonomic notes on the larva of British Diptera. no. 25, The larva and pupa of Dioctria rufipes (Degeer) (Asilidae).
4363

Two Dolichopodidae (Diptera) from St. Helena Island South Atlantic.
4378

New species of Meromyza Mg. (Diptera, Chloropidae) from Transbaykalia.
4381

Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae).
4385

Tabanidae (Diptera) of the Netherlands.
4403

Contributions to the (Diptera, Simuliidae) fauna of Austria. III. The fauna of the valley of the YBBS.
4851

DIPYRIDYL
The dipyridillics in tomato cultures.
4914

DIQUAT
The dipyridillics in tomato cultures.
4914

DISEASE CONTROL
Needed: A miracle method for soil borne disease control.
4695

DISEASE TRANSMISSION
Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

DIURNAL RHYTHM
The action of dark phases of varying durations in the circadian, ultra- and infra-circadian rhythms on the production of winged gynophores of Dysaphis plantaginea Pass. (Homoptera, Aphididae).
4461

Circadian clock action spectrum in a photoperiodic moth.
4465

Diurnal variation in some Krebs cycle enzymes in cactus (Nopalea dejecta) phylloclades.
4910

DIURON
Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

DNA VIRUSES
Characterization of a small porcine DNA virus.
4826

DODINE
Disease control in nonbearing orchards.
4699

DOGS
Experiences about the tolerance and use of Stagloban in the dog.
4836

Staphylococcal intoxication of young suckling whelps.
4840

Larval development of a nematode parasite of the dog circulatory system in dulcaquicoles mollusks.
4857

DOLICHOPODIDAE
Two Dolichopodidae (Diptera) from St. Helena Island South Atlantic.
4378

Predatory behaviour of a Dolichopodid and an Ephydrid (Dipt.).
4449

DORSAL VESSEL
Cardiac activity of Locusta migratoria in vitro and the influence of the corpora cardiaca. Perfection of an experimental method and preliminary results.
4474

DOSAGE
Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

Aspects of virus multiplication and average reduplication time for a granulosis virus of Zeiraphera diniana (Guenee).
4456

Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller).
4553

Trans-ovum transmission of insect viruses as a biological control.
4600

Effect of high temperatures on the resistance of insects to infectious diseases.
4607

Caterpillar size and the dosage of Bacillus thuringiensis preparations.
4621

The influence of the genotype on the frequency of radiationinduced aneuploidy in the oogenesis of Drosophila melanogaster. V. A tentative explanation of the differences in the dose-response curves.
4635

New fungicide for potato blight.
4684

Efficiency of some fungicides in the disinfection of the carnation roots.
4692

1967 field trials on control of coffee berry disease in Kenya. I.-V.
4698

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

Pesticide residues in cultivated mushrooms.
4891

DDT: Sublethal effects on brook trout nervous system.
4892

Some observations concerning the maximum dosage ordinance.
4897

Ag firm concentrates on waterless spraying.
4943

Aircraft operations in the Colusa project.
4944

DOTHIDELLA ULEI
The resistance of Fx and IAN rubber clones to leaf diseases in Brazil.
4693

DPA
DPA for scald control.
4715

Problems with scald inhibitors.
4863

DRAFT BUFFALOES
First records of eye-frequenting moths from Ceylon.
4365

DROSOPHILA
A revision of the subgenus Hirtodrosophila of the Old World, with descriptions of some new species and subspecies (Diptera, Drosophilidae, Drosophila).
4418

DROSOPHILA HYDEI
A specific chromosome element, the telomere of Drosophila polytene chromosomes.
4628

DROSOPHILA MELANOGASTER
Action of ecdysone on the larvae of Drosophila melanogaster subjected to starvation. The existence of two pre-requisites for the formation of the puparium.
4491

Study of the multiplication of Sindbis arbovirus in Drosophila.
4509

The origin and growth of the genital disc in Drosophila melanogaster Meig.
4540

Action of natural ionizing radiations on reproduction in the metazoa: Research on Drosophila melanogaster.
4581

Data in evidence of a retardation of development of Drosophila melanogaster by a reduction in the natural environmental radiation.
4582

Evidence of a variant of the vesicular stomatitis virus (Indiana strain) which confers a retarded sensitivity to carbonic gas in Drosophila melanogaster.
4584

Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster.
4629

Cellular degeneration in the production of some mutant phenotypes in Drosophila melanogaster.
4634

The influence of the genotype on the frequency of radiationinduced aneuploidy in the oogenesis of Drosophila melanogaster. V. A tentative explanation of the differences in the dose-response curves.
4635

Seasonal changes in the direction of mating in Drosophila melanogaster in the experiments with a natural inversion.
4636

Transdetermination in cells.
4637

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

DRUG PLANTS
Cultivation of the sapogenin-bearing Dioscorea species.
4664

DRUG THERAPY
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis.
4808

Inhibition of the multiplication of foot-and-mouth virus in an adult mouse which had first been treated with the adjuvant of Freude .
4814

Studies on the treatment and prophylaxis of Salmonella pullorum infection in chicks with chloromycetin.
4820

Therapeutic effect of SDDS (2-sulfamoyl-4,4'-diaminodiphenyl sulfone) on experimental toxoplasmosis.
4843

Care and use of veterinary biologics.
4921

DRUGS
Choleresis in sheep.
4830

Experiences about the tolerance and use of Stagloban in the dog.
4836

Note on modifications of the AOAC method for amprolium in feed concentrates.
4895

Care and use of veterinary biologics.
4921

DRY FARMING
Effect of Spartin under dryland farming on Setaria italica (Beauv.).
4915

DRYING
An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

DUSTING
The boll weevil; How to control it. Part II.
4348

Don't take lightly these brinjal borers.
4759

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

DYSAPHIS PLANTAGINEA
The action of dark phases of varying durations in the circadian, ultra- and infra-circadian rhythms on the production of winged gynophores of Dysaphis plantaginea Pass. (Homoptera, Aphididae).
4461

DYSDERCUS FASCIATUS
Amino acid requirements of the cotton stainer, Dysdercus fasciatus Signoret (Pyrrhocoridae, Hemiptera).
4447

ECDYSONE
Action of ecdysone on the larvae of Drosophila melanogaster subjected to starvation. The existence of two pre-requisites for the formation of the puparium.
4491

ECHINOCOCCOSIS
The incidence and burden of Hymenolepis diminuta cysticerloids as a function of the age of the intermediate host, Tribolium confusum.
4524

Incidence of hydatosis in livestock in Lahore.
4842

ECHINOCOCCUS GRANULOSUS
Incidence of hydatosis in livestock in Lahore.
4842

ECOLOGY
Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

Some observations on ecological, physiological and biochemical aspects of weed control.
4776

Obligatory and additional hosts of helminths.
4859

A synopsis of the pesticide problem.
4899

ECONOMIC CONDITIONS
The individual.
4789

ECONOMIC FORECASTING
1969-Pest Control's economic forecast.
4951

Some problems of method and content in working-up a forecast -demonstrated on the example of the plant protection- and pesticide manufacturing industry.
4957

ECONOMIC PLANTS
Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

Pesticide residues in cultivated mushrooms.
4891

ECONOMICS
Irrigation by spraying.
4659

Cultivation of the sapogenin-bearing Dioscorea species.
4664

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

Wheat.
4691

Costing acute Mareks disease.
4828

Prevent worms to increase sheep profits.
4856

Ag firm concentrates on waterless spraying.
4943

Aircraft operations in the Colusa project.
4944

Some factors affecting the choice of materials for chemical plant equipment.
4947

The practical use of aerial application.
4958

EGGPLANT
Don't take lightly these brinjal borers.
4759

EIMERIA TENELLA
The physio-pathology of chicken caecal coccidiosis: Experimental study of immunogenesis, action of specific antilymphocytic sera.
4809

EKATIN
Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

ELECTRON CAPTURE
Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

ELECTRON MICROSCOPY
Ultrastructural peculiarities of the myofibrils in the flight muscles of Lepidoptera.
4452

Remarks on the structure of insect flight muscle fibrils at the striation level.
4453

Evidence for important intercellular spaces in the hypodermis and paracrystalline formations in the exuvial liquid of the larvae of Galleria mellonella L. (Lepidoptera Pyralidae) during the formation of the cuticle.
4455

Ultrastructure of the hemocytes of Locusta migratoria (Orthoptera).
4512

The infrastructural morphology of Pillotina calotermitidis nov. gen., nov. sp., a Spirochaetales of the intestine of Calotermes praecox.
4513

Spermiogenesis in Aedes aegypti (L.).
4536

On the presence of a virus in the testicle of a homopteran insect.
4555

The particle lining of the plasmic membrane in connection with excretion in a specialized region of the middle intestine of higher termites.
4574

Observations on the ultrastructure of the parasympathetic organs of the phasmids.
4585

ELECTRON TRANSPORT

Electron microscope study of the virus of the granulosis of the fall webworm (Hyphantria cunea Drury).
4613

The presence of particles with the appearance of nucleocapsids associated with mitochrondrites in the cells of a hamster infected with Rous virus.
4812

Ultrastructure of homogeneous bodies and cellular bodies during the course of rickettsial infections.
4813

Theory of classification of the densonucleose viruses , based on the study of molecular structures and physiochemical properties.
4823

The mode of formation of intracytoplasmic structures in tumors induced by viruses of the avian sarcoma leucosis group.
4824

Characterization of a small porcine DNA virus.
4826

ELECTRON TRANSPORT
Terminal electron transport in Leptospira.
4797

ELECTROPHORESIS
Evidence, by cellulose acetate electrophoresis, of a vitellogenetic protein in the hemolymph of the female imago of the cabbage pierid (Pieris brassicae L.).
4538

Polyacrylamide gel electrophoretic analysis of the proteins of Locusta migratoria (L.) and the corresponding albino mutant.
4561

Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster.
4629

Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

Boron in plants: A biochemical role.
4912

ELECTROPHYSIOLOGY
Electrophysiological evidence of the tactile function of the sensillary trichia on the antenna of the Speophyes lucidulus Delarouzee (cave Coleoptera) larva.
4479

Electrical resistance of intact integument throughout the molt cycle of a cockroach.
4593

Electrophysiological study of contact chemoreceptors in bloodsucking Diptera.
4624

EMBRYOS
Some problems on developmental physiology in the silkworm egg.
4570

Transdetermination in cells.
4637

EMERGENCE
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

EMPOASCA FLAVESCENS
The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

EMPUSA
An epidemic of Entomophthora among syrphid flies of the region of Geneva.
4610

EMULSIFYING AGENTS
Inactivation of juvenile hormone like compounds in insects.
4501

EMULSIONS
Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

ENCEPHALOMYELITIS
Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis.
4808

ENDOSULFAN
First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

ENDOTOXINS
Caterpillar size and the dosage of Bacillus thuringiensis preparations.
4621

Opsonins examination in the mouse after endotoxin-induced resistance to infection.
4833

ENDRIN
Influence of infestation by early shoot borer Chilotraea infuscatellus Sn. on shoot production and yield of sugarcane.
4751

Don't take lightly these brinjal borers.
4759

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Problems in monitoring DDT and its metabolites in the environment.
4889

A tidal rhythm in the susceptibility of Fundulus similis to sodium chloride and endrin.
4896

ENGINEERING
Some factors affecting the choice of materials for chemical plant equipment.
4947

ENTEROBACTERIACEAE
Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

ENTEROBIUS VERMICULARIS
Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

ENTOMOGENOUS FUNGI
Test on the use of Fusarium episphaeria f. coccophila (Desm.) Snyder and Hansen in the control of the California red scale , Aonidiella aurantii.
4483

The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

An epidemic of Entomophthora among syrphid flies of the region of Geneva.
4610

Results of field experiments carried out in 1954 and 1955 in switzerland concerning the microbial control of the larvae of Melolontha melolontha L.
4622

The reciprocal relationships in mixed cultures of entomophagous fungi and the effect of some Hyphomycetes on their growth.
4690

ENTOMOLOGY
The entomological year 1966.
4351

Records of Ohio fleas (Siphonaptera).
4397

Iconography of the eggs of the Lepidoptera fauna of Belgium.
4429

Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

ENVIRONMENT
Choice of resting site by Noctuidae (Lepidoptera).
4352

Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

Coenosia lineatipes Zett. (Dipt., Muscidae) preying on Typhlocyba cruenta H. S. (Hem., Cicadellidae).
4448

Comandra blister rust of hard pines.
4711

Some observations on ecological, physiological and biochemical aspects of weed control.
4776

Problems in monitoring DDT and its metabolites in the environment.
4889

ENVIRONMENTAL CONTROL
Data in evidence of a retardation of development of Drosophila melanogaster by a reduction in the natural environmental radiation.
4582

ENZYMES
Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster.
4629

Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

Oxidative enzymes in Escherichia coli plasma membrane.
4792

Intermediate energy metabolism of Leptospira.
4796

Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

2-deoxyribose gene-enzyme complex in Salmonella typhimurium: Regulation of phosphodeoxyribomutase.
4818

Hormonal effect on certain glycolytic enzymes of rat mammary gland.
4831

Competitive development of enzymatic activity of transcriptase and replicase in the course of a viral disease in cattle.
4837

Problems in monitoring DDT and its metabolites in the environment.
4889

The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

Diurnal variation in some Krebs cycle enzymes in cactus (Nopalea dejecta) phylloclades.
4910

Boron in plants: A biochemical role.
4912

Polyguanylic acid and its effect on amino acid incorporation.
4925

EOSINOPHILS
The focal distribution of lesions of porcine hypernatremic eosinophilic meningo-encephalitis for diagnostic purposes.
4803

EPHESTIA ELUTELLA
Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

EPHYDRIDAE
Predatory behaviour of a Dolichopodid and an Ephydrid (Dipt.).
4449

EPIDEMIOLOGY
A preliminary study on the polyhedrosis virus of jute semilooper, Anomis sabulifera Guen. 4516

Comandra blister rust of hard pines. 4711

Respiratory disease in the pig. II. 4798

Thermoresistant Clostridium perfringens of the A type in poultry. 4807

Costing acute Mareks disease. 4828

Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases. 4829

Incidence of hydatosis in livestock in Lahore. 4842

EPITHELIUM
Intranuclear crystals in the midgut epithelium of a flea. 4589

EPIZOOTIC DISEASES
Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis. 4537

The epizootiological importance of foot-and-mouth disease carriers. II. The carrier status of cattle exposed to foot-and-mouth disease following vaccination with an oil adjuvant inactivated virus vaccine. 4827

EQUINE INFECTIOUS ANEMIA
Sideroleucocytes as a diagnostic aid in equine infectious anaemia. 4815

EQUIPMENT
Irrigation by spraying. 4659

Drench your trees against San Jose scale. 4738

Aircraft operations in the Colusa project. 4944

The machinery generally used for efficient sterilization and disinfestation of the soil. 4945

For a better and more profitable technique in the application of soil fumigants. 4946

Some factors affecting the choice of materials for chemical plant equipment. 4947

Sodium tri-polyphosphate carried by tanker. 4950

The practical use of aerial application. 4958

ERIOPHYES INCIDIOSIS
Several measures used to combat fruit plant viruses. 4731

ERIOSOMA LANIGERUM
Hard-to-kill pests of fruit trees--woolly apple-aphid. 4747

ERWINIA
The problem of the potato blackleg disease. 4697

ERYSIPELAS BACTERINS
Sudden death in feeder pigs. 4816

ESCHERICHIA COLI
Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster. 4629

Oxidative enzymes in Escherichia coli plasma membrane. 4792

Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966. 4795

Association of increased recipient ability for R factors and reduced virulence among variants of Salmonella choleraesuis var. kunzendorf. 4819

ESTERASES
Esterase and phosphatase polymorphism in natural population of wild silkworm, Theophila mandarina L. 4626

ESTERS
Blackberry control near orchards and vegetable gardens. 4770

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality. 4888

ETHOPABATE
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis. 4720

ETHYL ALCOHOL
Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks. 4514

TLC spotting solvent for aflatoxins. 4938

ETHYLENE
Gibberellin delays ripening of tomatoes. 4906

EUCERCERIS
Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey. 4597

EUGLANDINA ROSEA
Biological control of snails exerted by Euglandina rosea (Ferussac) in Bermuda. 4786

EULOPHIDAE
Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae). 4615

EUMENIDAE
The occurrence of the solitary wasp Pterochilus phaleratus Panz. in the Scandinavian countries (Hym. Eumenidae). 4379

EUMERUS STRIGATUS
Narcissus flies. 4748

EUMERUS TUBERCULATUS
Narcissus flies. 4748

EUPHORBIA PULCHERRIMA
Growth retardant tests on potted poinsettias. 4905

EUPTYCHIA
A note on the family Euptychia (s. l.) (Lep. Satyridae). 4405

EUPTYCHIA ARIUS
A note on the family Euptychia (s. l.) (Lep. Satyridae). 4405

EUZOPHERA PERTICELLA
Don't take lightly these brinjal borers. 4759

EVALUATION
Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966. 4774

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida. 4884

EXCRETION
The particle lining of the plasmic membrane in connection with excretion in a specialized region of the middle intestine of higher termites. 4574

EXPERIMENT STATIONS
Annual report of the Department of Agriculture for the year 1962/63. (II). 4665

EXPERIMENTAL DESIGN
Cardiac activity of Locusta migratoria in vitro and the influence of the corpora cardiaca. Perfection of an experimental method and preliminary results. 4474

EXPERIMENTAL INSECTS
The introduction, release, and recovery of parasites of the alfalfa weevil in Eastern United States. 4466

Use of cherry-laurel foliage for preparation of an effective insect-killing jar. 4504

Results of experiments carried out in Hungary with Bacillus thuringiensis. 4525

An action of insect hormones on carbohydrate metabolism in insects. 4531

Diapause in Apanteles congregatus. 4586

Effect of high temperatures on the resistance of insects to infectious diseases. 4607

EXTENSION WORK
We can solve international residue problem if... 4956

EXTRACTION
A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure. 4937

Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides. 4942

EXTRACTS
Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks. 4514

EXUDATES
Rhizosphere root exudates and their effect on microbial activity. 4662

EXUVIAL FLUID
The role of the exuvial fluid swallowed before emergence, in the expansion of the wings of Bombyx mori L.. 4572

EYES
First records of eye-frequenting moths from Ceylon. 4365

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster. 4639

EYESPOT
Wheat. 4691

FALLOWING
The role of nematodes in horticulture. 4767

FARM MANAGEMENT
Experimental husbandry farm experience with herbicides and tillage systems for cereal growing. 4678

FARMERS
The cotton farmer of the year. 4953

The law and the use of pesticides. 4964

FASCIOLA HEPATICA
Isolation of a specific antigen of the large liver fluke (Fasciola hepatica L.). 4862

FAT BODY
The existence of inclusions which have a lamella ultrastructure in the nucleus of certain bacterio-

cytes in the adipose tissue of Periplaneta americana (Insecta, Blattidae).
4498

FATTY ACIDS
The presence of volatile fatty acids in the gut of a higher termite (Microcerotermes edentatus Was., Amitermitinae).
4535

Intermediate energy metabolism of Leptospira.
4796

Fatty acid composition of phosphatidyl ethanolamine of Mycobacterium tuberculosis.
4939

FECES
Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

FEED
Studies on chemical weed control with fodder kale.
4771

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

FEED CONCENTRATES
Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966.
4795

Note on modifications of the AOAC method for amprolium in feed concentrates.
4895

FEED TOXICITY
Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966.
4795

Thermoresistant Clostridium perfringens of the A type in poultry.
4807

Note on modifications of the AOAC method for amprolium in feed concentrates.
4895

FEEDING
Predatory behaviour of a Dolichopodid and an Ephydrid (Dipt.).
4449

The development of an artificial diet not containing leaf powder of any food plants for Eri-silkworm raising.
4493

Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

Brood care in halictine bees.
4529

FENTHION
Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

FERMENTATION
A new culture method for Rhynchosciara.
4563

FERTILITY
The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

FERTILIZATION (PLANTS)
Fertilization of semi-mature stands in Newfoundland.
4652

FERTILIZER APPLICATION
Pruning produces perfect, pest-free peaches.
4762

FERTILIZERS
Role of potash application in reducing black rust of wheat.
4680

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

FIBERS
Attack on moco cotton by pink bollworm in Ceara.
4756

FISH
Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

A tidal rhythm in the susceptibility of Fundulus similis to sodium chloride and endrin.
4896

Use insecticides safely.
4901

FLACHERIE
Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

FLORISIL
Variation of Florisil activity: Simple method for measuring adsorbent capacity and its use in standardizing Florisil columns.
4934

FLOUR
Mobility in Tribolium confusum.
4565

FLOWERS
Biological control of snails exerted by Euglandina rosea (Ferussac) in Bermuda.
4786

FLUORESCENT ANTIBODY TECHNIC
Fluorescent antibody techniques for vesicular stomatitis virus.
4799

FOENATOPUS HOGGARENSIS
New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar.
4391

FOLIAGE
Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

Fertilization of semi-mature stands in Newfoundland.
4652

FOLIAR APPLICATION
Growth retardant tests on potted poinsettias.
4905

Effect of foliar sprays of plant regulators (IAA and GA) on the growth and yield of Knol Khol (Brassica oleracea Linn. var. gongylodes).
4918

FOOD
Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

FOOD ANALYSIS
The determination of the amount of diazinon residues in foodstuff by means of labeled diazinon. (Summary).
4877

FOOD CONTAMINATION
Bacteriostatic properties of milk from tropical countries.
4868

Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

Here we go again... Pesticides under fire from new consumer group.
4873

FOOD HABITS
The adaptability of Blastophagus piniperda L. (Col. Scolytidae) to various Pinus and the preferences of this insect in regard to these forest species.
4476

The influence of the brood comb on food exchange between honeybee workers (Apis mellifera).
4486

Food gathering behavior of the ant, Camponotus noveboracensis (Fitch) (Hymenoptera: Formicidae).
4499

Apomyelois bistriatella: A moth which feeds in an ascomycete fungus (Lepidoptera: Pyralidae).
4583

Orientation of carrion beetles to carrion: Random or nonrandom .
4598

Preliminary observations on the choice of host plants by adults of the citrus psylla, Trioza erypreae (Del Guercio) (Homoptera: Psyllidae).
4749

FOOD MOISTURE
Bulk wheat pests can be controlled by simple precautions.
4866

FOOD PRESERVATIVES
Effects of chemical preservatives and storage on constituents used to characterize lemon juice.
4940

FOOD SANITATION
Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

FOOD SUPPLY
Honey bee recruitment to food sources: Olfaction or language.
4619

FOOT ROT
Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

FOOT-AND-MOUTH DISEASE
The epizootiological importance of foot-and-mouth disease carriers. II. The carrier status of cattle exposed to foot-and-mouth disease following vaccination with an oil adjuvant inactivated virus vaccine.
4827

FOOT-AND-MOUTH DISEASE VIRUS
Virulence, adsorbability, and antigenicity of foot-and-mouth disease virus selected by adsorption with homogenized mouse kidney.
4802

Inhibition of the multiplication of foot-and-mouth virus in an adult mouse which had first been treated with the adjuvant of Freude .
4814

Competitive development of enzymatic activity of transcriptase and replicase in the course of a viral disease in cattle.
4837

FOREST APPRAISAL
Fertilization of semi-mature stands in Newfoundland.
4652

FOREST CONSERVATION
The important forest pests of Spain.
4660

FOREST INSECTS
Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

Annotated list of forest insects of British Columbia. XIV. Ennominae (Geometridae).
4433

First occurrence of balsam woolly aphid in the interior of British Columbia. 4441

Sound production in the white-pine weevil, Pissodes strobi, and the northern pine weevil, P. approximatus. 4506

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta. 4745

FORESTRY BUSINESS ECONOMICS
Fertilization of semi-mature stands in Newfoundland. 4652

FORESTS
Fertilization of semi-mature stands in Newfoundland. 4652

FORFICULA AURICULARIA
Further notes on the reproductive biology of the earwig Forficula auricularia L.. 4510

FORMALDEHYDE
Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L. 4617

Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II. 4913

FORMAMIDE
The action of formamide on turnip yellow mosaic virus: Obtaining artificial capsids. 4686

FORMICIDAE
Biology of the ant Formica sanguinea Latr. (Hymenoptera, Formicidae) in the Tien Shan. 4559

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes. 4763

FORMOTHION
The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France. 4761

FOXES
The reappearance of rabies in France. First case in a fox in Moselle. 4793

FRACTIONATION
Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster. 4629

FRANKLINIELLA TRITICI
Thrips infesting the tips of asparagus spears. 4740

FREUNDS ADJUVANT
Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis. 4808

FRUIT
Industrial tests of the biological preparation Entobacterin-3 in the USSR. 4489

Black spot of apple. 4700

DPA for scald control. 4715

Drench your trees against San Jose scale. 4738

FRUIT CULTURE
Several measures used to combat fruit plant viruses. 4731

FRUIT SETTING
Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L). 4919

FRUIT TREES
Disease control in nonbearing orchards. 4699

FUMIGANTS
The effects of soil sterilization procedures on the microbiological equilibrium of the soil. 4672

Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.). 4766

Fumigants and specific nematocides in the control of phytophagous nematodes. 4769

The machinery generally used for efficient sterilization and disinfestation of the soil. 4945

The pesticide review. 4952

FUMIGATION
Pesticide residues in cultivated mushrooms. 4891

FUNGI
Cytology and cytochemistry of the mycetone of Pseudococcus maritimus (Earhorn) (Homoptera Coccidae. 4550

Preservative treatments and service life of fence posts in Puerto Rico. 4658

Occurrence of antibacterial and antifungal actinomycetes in cultivated soils of West Bengal. 4667

Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola. 4669

The effects of soil sterilization procedures on the microbiological equilibrium of the soil. 4672

Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B. 4673

How to prevent and remove mildew; home methods. 4959

FUNGI DISSEMINATION
Annual variation in persistence and transmission of Hypomyces haematococcus (Berk. and Br.) Wr. 4706

FUNGICIDES
New fungicide promises effective and economical plant disease control. 4682

New fungicide for potato blight. 4684

Efficiency of some fungicides in the disinfection of the carnation roots. 4692

1967 field trials on control of coffee berry disease in Kenya. I.-V. 4698

Disease control in nonbearing orchards. 4699

Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran. 4723

Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966. 4725

Thiram thins Granny Smith apples. 4726

Some observations concerning the maximum dosage ordinance. 4897

Imidazole: Fungitoxic derivatives. 4902

The pesticide review. 4952

How to prevent and remove mildew; home methods. 4959

FUNGUS CULTURES
Physiological studies on incitants of guava wilt Fusarium solani (Mart.) App. and Wr. emend Snyder and Hansen and Macrophomina phaseoli (Maubl.) Ashby. 4688

Effect of mixed spore inocula of Botrytis ssp. on lesion development in the leaves of bean (Vicia faba L.). 4718

FUNGUS DISEASES (PLANTS)
The important forest pests of Spain. 4660

Plant protection in agriculture. 4670

Role of potash application in reducing black rust of wheat. 4680

Cryptogama diseases of the root system. Prevention and control. 4681

New fungicide promises effective and economical plant disease control. 4682

Co-operative spraying against banana pests. 4683

New fungicide for potato blight. 4684

Physiological studies on incitants of guava wilt Fusarium solani (Mart.) App. and Wr. emend Snyder and Hansen and Macrophomina phaseoli (Maubl.) Ashby. 4688

Efficiency of some fungicides in the disinfection of the carnation roots. 4692

The resistance of Fx and IAN rubber clones to leaf diseases in Brazil. 4693

1967 field trials on control of coffee berry disease in Kenya. I.-V. 4698

Black spot of apple. 4700

Studies on Phyllosticta blight of rice. 4703

Annual variation in persistence and transmission of Hypomyces haematococcus (Berk. and Br.) Wr. 4706

On the role of the phenol constituents in the course of infection of the cacaopods of Theobroma cacao L. by Phytophthora palmivora Butl.. 4709

Comandra blister rust of hard pines. 4711

Contribution to the study of a parasitic complex which attaches itself to the exposed parts of cotton plants and causes their withering. 4712

The law of host-parasite balance in the process of pathogenesis and its implications in ecology. 4714

Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato. 4716

Effect of mixed spore inocula of Botrytis ssp. on lesion development in the leaves of bean (Vicia faba L.). 4718

Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran. 4723

Thiram thins Granny Smith apples. 4726

Chemical control of some important cereal plant diseases in India. 4727

Fungus diseases of bermudagrass and overseeded coolseason grasses on golf greens. 4730

Rust infection protects beans against heat injury.
4732

Black stem- the second stem disease of grains.
4734

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

FUNGUS PHYSIOLOGY
Annual variation in persistence and transmission of Hypomyces haematococcus (Berk. and Br.) Wr.
4706

FURAZOLIDONE
Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966.
4795

FUSARIUM
Test on the use of Fusarium episphaeria f. coccophila (Desm.) Snyder and Hansen in the control of the California red scale , Aonidiella aurantii.
4483

New fungicide promises effective and economical plant disease control.
4682

Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

FUSARIUM OXYSPORUM
Co-operative spraying against banana pests.
4683

FUSARIUM ROSEUM
Efficiency of some fungicides in the disinfection of the carnation roots.
4692

FUSARIUM SOLANI
Physiological studies on incitants of guava wilt Fusarium solani (Mart.) App. and Wr. emend Snyder and Hansen and Macrophomina phaseoli (Maubl.) Ashby.
4688

GALL-MAKING INSECTS
Biology of Gynaikothrips karnyi Bagnall, the marginal gall forming thrips of pepper.
4616

GALLERIA MELLONELLA
Evidence for important intercellular spaces in the hypodermis and paracrystalline formations in the exuvial liquid of the larvae of Galleria mellonella L. (Lepidoptera Pyralidae) during the formation of the cuticle.
4455

The nature of pathogenicity of Pseudomonas aeruginosa for Galleria mellonella.
4551

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

GAMASID MITES
Ectoparasitic mites (Acarina: Parasitiformes) from small mammals from the Tarnasjo and Ammarnas areas in Swedish Lapland.
4353

GAMMA GLOBULINS
Experiences about the tolerance and use of Stagloban in the dog.
4836

GASES
Trials with carbon dioxide, light and growth substances on forest tree plants.
4909

GASTRIC ULCERS
Sudden death in feeder pigs.
4816

GASTROENTERITIS
Sudden death in feeder pigs.
4816

GASTROINTESTINAL SYSTEM
Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

The accumulation of ferritin in the nuclei and cytoplasm of certain mesenteron cells in old Homoptera Cercopidae.
4500

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

Intranuclear crystals in the midgut epithelium of a flea.
4589

Thermoresistant Clostridium perfringens of the A type in poultry.
4807

Staphylococcal intoxication of young suckling whelps.
4840

Host-parasite relationship. 1. Studies on the productivity of sheep as affected by Haemonchosis.
4858

GASTROPODA
Notes on insect and gastropode damage to enclosed cotton plantations.
4671

GELECHIOIDEA
A revision of the Cosmopterigidae of American north of Mexico, with a definition of the Momphidae and Walshiidae (Lepidoptera: Gelechioidea).
4395

GELS
Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

GENES
Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

GENETICS
Wheat.
4691

A new gene from Rubus occidentalis L. for resistance to strains 1, 2 and 3 of the rubus aphid, Amphorophora rubi Kalt.
4746

Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

Chromosome replication in Salmonella typhimurium.
4805

2-deoxyribose gene-enzyme complex in Salmonella typhimurium: Regulation of phosphodeoxyribomutase.
4818

Salmonella abony-Salmonella typhimurium recombinant nonvirulent for the mouse.
4822

Cold-sensitive mutations in Salmonella typhimurium which affect ribosome synthesis.
4844

GENOTYPES
The influence of the genotype on the frequency of radiationinduced aneuploidy in the oogenesis of Drosophila melanogaster. V. A tentative explanation of the differences in the dose-response curves.
4635

GEOGRAPHY
The occurrence of Theognis occidentalis in the Midwestern United States (Heteroptera: Coreidae).
4592

GEOMETRIDAE
First records of eye-frequenting moths from Ceylon.
4365

A new Somatina of the Congo. (Lepidoptera Geometridae).
4393

Concerning the taxonomic clarification of Narraga tessularia ilia Whli and some remarks about this genus. (Lepidoptera, geometridae).
4421

Annotated list of forest insects of British Columbia. XIV. Ennominae (Geometridae).
4433

GIBBERELLA FUJIKUROI
Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

GIBBERELLIC ACID
Gibberellin delays ripening of tomatoes.
4906

Trials with carbon dioxide, light and growth substances on forest tree plants.
4909

Effect of foliar sprays of plant regulators (IAA and GA) on the growth and yield of Knol Khol (Brassica oleracea Linn. var. gongylodes).
4918

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.).
4920

GIBBERELLINS
Gibberellins as plant hormones.
4904

Synthesis of substances related to gibberellins. Part XVIII. Total synthesis of (plus or minus) gibberellins A A subscript 4, A subscript 9, and A subscript 10.
4935

GLANDS (ANIMALS)
Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

GLANDS (INSECTS)
Benzaldehyde: Defensive secretion of a harvester ant.
4460

Study of the tegumentary glands and their secretory cycle in the larva of Tipula flavolineata Meig..
4579

GLANDS (PLANTS)
Breeding work for the creation of glandless cotton varieties in chad.
4654

The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

GLOSSINA MORSITANS
Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

GLUCOSE
An action of insect hormones on carbohydrate metabolism in insects.
4531

GLYCERIDES
Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

GLYCOGEN
Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

GLYCOLYSIS
Hormonal effect on certain glycolytic enzymes of rat mammary gland.
4831

Boron in plants: A biochemical role.
4912

GLYCOPROTEINS
Immunochemical characterization of sheep plasma glycoprotein.
4838

GOLF COURSES
Fungus diseases of bermudagrass and overseeded coolseason grasses on golf greens.
4730

GOSSYPOL
Breeding work for the creation of glandless cotton varieties in chad.
4654

GOVERNMENT AID
Our struggle against pests. II.
4872

1969-Pest Control's economic forecast.
4951

GRAIN
Watch for the cereal leaf beetle.
4557

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

Pessimism over crop diseases.
4679

Chemical control of some important cereal plant diseases in India.
4727

Black stem- the second stem disease of grains.
4734

GRANULOSES
Aspects of virus multiplication and average reduplication time for a granulosis virus of Zeiraphera diniana (Guenee).
4456

Electron microscope study of the virus of the granulosis of the fall webworm (Hyphantria cunea Drury).
4613

GRAPE VINEYARDS
The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

GRAPES
The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

GRASSES
Watch for the cereal leaf beetle.
4557

Fungus diseases of bermudagrass and overseeded coolseason grasses on golf greens.
4730

Effect of Spartin under dryland farming on Setaria italica (Beauv.).
4915

GRASSHOPPERS
Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

GREENHOUSE CULTURE
Research possibilities and the improvement of the carnation cultivated as a cut flower.
4656

Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

Growth retardant tests on potted poinsettias.
4905

GROWTH FACTORS
Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

A semi-synthetic diet for Eri-silkworm raising.
4492

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

An action of insect hormones on carbohydrate metabolism in insects.
4531

Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

The use of growth promoters to increase potato yields.
4677

Gibberellin delays ripening of tomatoes.
4906

GRYLLIDAE
Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

GRYLLINAE
Chromosome studies and systematics of Gryllinae (Insecta Orthoptera).
4404

GUAVAS
Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

Physiological studies on incitants of guava wilt Fusarium solani (Mart.) App. and Wr. emend Snyder and Hansen and Macrophomina phaseoli (Maubl.) Ashby.
4688

GUINEA PIGS
Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis.
4808

GYNAIKOTHRIPS KARNYI
Biology of Gynaikothrips karnyi Bagnall, the marginal gall forming thrips of pepper.
4616

HABITATS
Rancho Grande (Venezuela). 2. Microhabitats of.
4595

Biological observations on some sandflies (Phlebotomus) of Rancho Grande (Venezuela). 3. Bionomical notes on Phlebotomus townsendi Ortiz, 1959 and P. vexillarius Fairchild Heritig, 1952.
4596

HAEMONCHOSIS
Host-parasite relationship. 1. Studies on the productivity of sheep as affected by Haemonchosis.
4858

HAEMONCHUS CONTORTUS
Host-parasite relationship. 1. Studies on the productivity of sheep as affected by Haemonchosis.
4858

HALICTIDAE
On the continuous or periodic production of broods in the Halictinae (Insecta, Hymenoptera).
4526

Comparison of the structure and architecture of some nests of Evylaeus (Hym., Halictidae) at the cell region.
4527

On the production of males in the social Halictinae (Insecta, Hymenoptera).
4528

HALICTINAE
Brood care in halictine bees.
4529

HALO BLIGHT
Seed contamination in transmission of halo blight in beans.
4694

HALTICINAE
Contribution to the systematics and zoogeography of Halticinae (Col.) in the Canary Islands.
4410

HAMSTERS
The presence of particles with the appearance of nucleocapsids associated with mitochrondrites in the cells of a hamster infected with Rous virus.
4812

Persistance of the genome of the Rous virus in hamster cells changed in vitro, and the action of inactivated Sendai virus on its transmission to chick cells.
4848

Experimental infection of laboratory animals with Ascaris suum.
4855

HANDBOOKS
Pesticide handbook - entoma - 1968.
4929

HATCHING
Circadian clock action spectrum in a photoperiodic moth.
4465

HEART DISEASES
Sudden death in feeder pigs.
4816

HEAT
Rust infection protects beans against heat injury.
4732

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

Heat-stable elements in commercial preparations based on Bacillus thuringiensis Berliner.
4924

HEAT TREATMENT
Effect of high temperatures on the resistance of insects to infectious diseases.
4607

HELICONIUS ERATO
Single unit activity in the visual pathway of the butterfly Heliconius erato.
4605

HELICOPTERS
Aircraft operations in the Colusa project.
4944

HELICOTYLENCHUS MULTICINCTUS
Nematodes attack bananas.
4768

HELMINTHIASIS
Outline of Syrian parasitology.
4790

Respiratory disease in the pig. II.
4798

Obligatory and additional hosts of helminths.
4859

HELMINTHOSPORIUM
Fairway disease control.
4674

HELMINTHOSPORIUM ORYZAE
Morphology and mode of germination of conidia of Helminthosporium oryzae in relation to its taxonomy.
4657

HELODIDAE
New Palearctic species of the genus Cyphon Payk. IV. Studies on the Helodidae family. IX.
4416

HEMAGGLUTINATION
Research on the oncogenic constituents of three zones of hemagglutinating activity, obtained by centrifugation of polyoma virus purified in density gradients with cesium chloride.
4806

HEMEROBIIDAE
A new Wesmaelius from central Asia (Neuroptera, Hemerobiidae).
4434

HEMEROCAMPA LEUCOSTIGMA
The problem of viral latency in insect tissue cultures.
4484

HEMIPTERA
Lopidea Uhler: New species and records from Mexico and southwestern United States with Mayamiris, related new genus from Mexico (Hemiptera, Miridae).
4530

Aradidae in the Bishop Museum, Honolulu (HemipteraHeteroptera).
4533

HEMOLYMPH
Ultrastructure of the hemocytes of Locusta migratoria (Orthoptera).
4512

Evidence, by cellulose acetate electrophoresis, of a vitellogenetic protein in the hemolymph of the female imago of the cabbage pierid (Pieris brassicae L.).
4538

Intraspecific qualitative and quantitative variations of the hemolymph proteins of Cophopodisma pyrenae (Fisch.), (Orthoptera, Catantopidae) as a function of biogeographic area.
4562

Physiological responses of insects to nicotine.
4623

HEPTACHLOR
Termite control in rubber plantations.
4521

Some pests of ornamental plants in Madras.
4735

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Problems in monitoring DDT and its metabolites in the environment.
4889

HEPTACHLOR EPOXIDE
Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in people. Storage of DDT in the people of Israel.
4890

HERBICIDES
Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

Blackberry control near orchards and vegetable gardens.
4770

Studies on chemical weed control with fodder kale.
4771

Test results with patoran.
4772

Possibilities of limiting tillage measures in potato cultures when using herbicides. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4773

Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4774

Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

Finesse in weed control.
4778

Weed control studies in strawberries.
4779

Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

Weeds and their control.
4782

Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

Collection of reports given at the International Herbicide Conference. Prague, Czechoslovakia, 21-24 June 1966.
4784

Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

Pesticides in water, Pesticides in selected western streams--A contribution to the national program.
4870

Notice of filing of petition regarding pesticide chemical.
4879

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides.
4942

The pesticide review.
4952

Part II proposed for paraquat.
4962

The law and the use of pesticides.
4964

HEREDITY
Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

HETERODERA GLYCINES
Domestic quarantine notices. Soybean cyst nematode. Quarantine and regulations.
4764

HETERODERA SCHACHTII
Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.).
4766

HETEROPTERA
Fauna of the predator bugs (Hemiptera-Heteroptera) occurring on apple trees in the district of Poznan.
4532

HEXANE
Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

Variation of Florisil activity: Simple method for measuring adsorbent capacity and its use in standardizing Florisil columns.
4934

HIBERNATION
Investigations of fauna overwintering in or under the bark of apple trees. Part II. Studies on Arachnida.
4534

The occurrence of Theognis occidentalis in the Midwestern United States (Heteroptera: Coreidae).
4592

HIBISCUS CANNABINUS
Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

HIBISCUS ROSA-SINENSIS
Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.).
4920

HIPPELATES COLLUSOR
Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

HISTOCHEMISTRY
Histochemical data on the neurosecretory allata terminations in Antheraea pernyi Guer. (Lepidoptera, Attacidae) and in Rhodnius prolixus Stal. (Hemiptera, Reduviidae).
4469

HISTOLOGY
Study of the corpus allatum in living larvae of the blow fly Calliphora erythrocephala Mg. (Diptera, Calliphoridae).
4606

Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis.
4808

Staphylococcal intoxication of young suckling whelps.
4840

HISTOPATHOLOGY
Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

HOG CHOLERA VIRUS
Study of the multiplication, in a unique clone cycle, of classic swine fever virus in an immunofluorescent medium.
4794

Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

HOMOPTERA
On the presence of a virus in the testicle of a homopteran insect.
4555

HORMONES
Cardiac activity of Locusta migratoria in vitro and the influence of the corpora cardiaca. Perfection of an experimental method and preliminary results.
4474

The regulatory capacity of the dorsal mesothoracic disc in Ceratitis capitata Wied (Diptera, Trypetidae).
4480

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

An action of insect hormones on carbohydrate metabolism in insects.
4531

Hormonal effect on certain glycolytic enzymes of rat mammary gland.
4831

HORSES
Sideroleucocytes as a diagnostic aid in equine infectious anaemia.
4815

HORTICULTURE
The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

The role of nematodes in horticulture.
4767

HOST INDEXING (PLANTS)
Insect and mite control on nursery stock in Ohio.
4743

HOST PLANTS
Preliminary observations on the choice of host plants by adults of the citrus psylla, Trioza erypreae (Del Guercio) (Homoptera: Psyllidae).
4749

HOST RECORDS
Form and mechanism of transmission of plant viruses. Transmission of viruses by nematodes.
4729

HOST RELATIONSHIPS
The ecological importance of the predatory behavior of Aphelinus asychis Walker, Hym., Aphelinidae, an endoparasite of Purcerons (Hom., Aphididae).
4566

Form and mechanism of transmission of plant viruses. Transmission of viruses by nematodes.
4729

Outline of Syrian parasitology.
4790

Obligatory and additional hosts of helminths.
4859

HOST-PARASITE RELATIONS
The incidence and burden of Hymenolepis diminuta cysticerloids as a function of the age of the intermediate host, Tribolium confusum.
4524

The law of host-parasite balance in the process of pathogenesis and its implications in ecology.
4714

HOUSING
1969-Pest Control's economic forecast.
4951

HUMAN DISEASES
Pest-management concepts and control of tick paralysis in British Columbia.
4849

Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

Pesticides in people. Storage of DDT in the people of Israel.
4890

HUMAN NUTRITION
Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

HUMANS
Search for new insecticides.
4893

HUMIDITY
Rancho Grande (Venezuela). 2. Microhabitats of.
4595

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

How to prevent and remove mildew; home methods.
4959

HYDROCARBONS
Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

HYDROCHLORIC ACID
Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

HYDROCYANIC ACID
Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

HYDROGEN-ION CONCENTRATION
Crithidia mellificae n. sp. an acidophilic trypanosomatid of the honey bee Apis mellifera.
4539

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

Physiological responses of insects to nicotine.
4623

Effect of pH on the immunogenicity of Mycoplasma pneumoniae.
4834

Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

HYDROPHILIDAE
Evidence of a modified ovarian region in the hair glands of the Coleopteron, Hydrophilidae. Comparative anatomic data.
4554

HYDROXYPROLINE
Inoculation of Carica papaya L. with the ringspot distortion virus under various conditions.
4733

HYMENOLEPIS DIMINUTA
The incidence and burden of Hymenolepis diminuta cysticerloids as a function of the age of the intermediate host, Tribolium confusum.
4524

HYMENOLEPSIS
Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

HYMENOPTERA
Burmese Ichneumoninae V. 32. Genus Naenaria Cameron.
4392

Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

Community studies on Hymenoptera found on Brassica napus. Part IV. Aculeata.
4567

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

HYPENINAE
Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae).
4376

HYPERA
New species of Hypera (Coleoptera, Curculionidae) from the Crimean Mountains.
4444

HYPERA POSTICA
The introduction, release, and recovery of parasites of the alfalfa weevil in Eastern United States.
4466

HYPHANTRIA CUNEA
Electron microscope study of the virus of the granulosis of the fall webworm (Hyphantria cunea Drury).
4613

HYPODERMA BOVIS
The warble fly.
4568

HYPODERMA LINEATUM
The warble fly.
4568

HYPOMYCES
Annual variation in persistence and transmission of Hypomyces haematococcus (Berk. and Br.) Wr.
4706

ICHNEUMONIDAE
New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar.
4391

Ichneumonidae (Hymenoptera) collected in paddy fields of the Orient, with descriptions of new species. Part 2. Subfamilies Porizontinae, Metopiinae and Diplazontinae.
4412

ILLUSTRATIONS
Iconography of the eggs of the Lepidoptera fauna of Belgium.
4429

IMIDAZOLE
Imidazole: Fungitoxic derivatives.
4902

IMINES
Imidazole: Fungitoxic derivatives.
4902

IMMOBILIZATION
The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

IMMUNITY
Ultrastructure of homogeneous bodies and cellular bodies during the course of rickettsial infections.
4813

Association of increased recipient ability for R factors and reduced virulence among variants of Salmonella choleraesuis var. kunzendorf.
4819

The mode of formation of intracytoplasmic structures in tumors induced by viruses of the avian sarcoma leucosis group.
4824

Opsonins examination in the mouse after endotoxin-induced resistance to infection.
4833

Immunochemical characterization of sheep plasma glycoprotein.
4838

The role of interferon in the interference phenomenon between vaccinia virus and fixed rabies virus.
4847

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

IMMUNIZATION
Protection against Rinderpest conferred to cattle by an inactivated virus adapted to cattle cells.
4835

Experiences about the tolerance and use of Stagloban in the dog.
4836

IMMUNOCHEMISTRY
Effect of pH on the immunogenicity of Mycoplasma pneumoniae.
4834

Isolation of a specific antigen of the large liver fluke (Fasciola hepatica L.).
4862

IMMUNOFLUORESCENCE
Study of the multiplication, in a unique clone cycle, of classic swine fever virus in an immunofluorescent medium.
4794

IMMUNOGENICITY
Virulence, adsorbability, and antigenicity of foot-and-mouth disease virus selected by adsorption with homogenized mouse kidney.
4802

The physio-pathology of chicken caecal coccidiosis: Experimental study of immunogenesis, action of specific antilymphocytic sera.
4809

Association of increased recipient ability for R factors and reduced virulence among variants of Salmonella choleraesuis var. kunzendorf.
4819

IMMUNOLOGY

Effect of pH on the immunogenicity of Mycoplasma pneumoniae.
4834

IMMUNOLOGY
Quantitative studies on the neutralization reaction between African horse-sickness virus and antiserum.
4817

Pest-management concepts and control of tick paralysis in British Columbia.
4849

IN VIVO
The effects of pantothenic acid, pantoyltaurine, salicylate and related compounds on the in vitro and in vivo growth of Trypanosoma lewisi.
4839

INCLUSION-BODY RHINITIS VIRUS
Respiratory disease in the pig. II.
4798

INDEXES
Bibliography of biological control. VIII.
4661

INDIA
Biology of Gynaikothrips karnyi Bagnall, the marginal gall forming thrips of pepper.
4616

INDOLEACETIC ACID
Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings.
4903

The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

Effect of foliar sprays of plant regulators (IAA and GA) on the growth and yield of Knol Khol (Brassica oleracea Linn. var. gongylodes).
4918

Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.).
4920

INDUSTRIAL WASTES
On the influence of effluent of the starch factory upon the Yubetsu River and the Shokotsu river, and of effluent of the best factory upon the benthic animals in the Abashiri River (Hokkaido).
4955

INDUSTRY
Some factors affecting the choice of materials for chemical plant equipment.
4947

Some problems of method and content in working-up a forecast -demonstrated on the example of the plant protection- and pesticide manufacturing industry.
4957

Our struggle against pests.
4960

INFECTIOUS CANINE HEPATITIS
Experiences about the tolerance and use of Stagloban in the dog.
4836

INFECTIOUS DISEASES
Effect of high temperatures on the resistance of insects to infectious diseases.
4607

The problem of the potato blackleg disease.
4697

Control of bovine tuberculosis and list of officially certified herds.
4846

INHIBITORS
Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

INJECTIONS
Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

INSECT ABNORMALITIES
Teratological effects on the nymphs and adults of insects, the larvae of which have ingested sublethal doses of the thermostable toxin of Bacillus thuringiensis Berliner.
4468

Transdetermination in cells.
4637

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

INSECT ADAPTATION
The first discovery of free-living larvae of the ear tick, Otobius megnini (Duges), in British Columbia.
4424

The adaptability of Blastophagus piniperda L. (Col. Scolytidae) to various Pinus and the preferences of this insect in regard to these forest species.
4476

Physiological responses of insects to nicotine.
4623

INSECT ANATOMY
Studies of black flies of Panama. III. Two new species of Simulium of the subgenus Hemicnetha.
4383

Contribution to the systematics and zoogeography of Halticinae (Col.) in the Canary Islands.
4410

Aphids from the subtribe Schizolachnina (Aphidoidea, Lachninae) in Middle Europe.
4420

The identity of Sitophilus oryzae.
4462

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

Internal anatomy of the developmental stages of the twospotted spider mite.
4520

Remarks concerning the terminology of the genitalia armor in the genus Argynnis (S.L.). (Lepidoptera, Nymphalidae).
4573

INSECT BEHAVIOR
Aphidius smithi Sharma and Subba Rao (Hymenoptera: Aphidiidae) a parasite of the pea aphid new in Southern Ontario.
4350

Choice of resting site by Noctuidae (Lepidoptera).
4352

Opsius stactogalus Fieb. (Hem., Cicadellidae) in S. E. London.
4354

Coenosia lineatipes Zett. (Dipt., Muscidae) preying on Typhlocyba cruenta H. S. (Hem., Cicadellidae).
4448

Predatory behaviour of a Dolichopodid and an Ephydrid (Dipt.).
4449

Research on the odoriferous constituents of the terpenic fumes of various substances and their action on Ips sexdentatus Boerner (Coleoptera, Scolytidae).
4475

The adaptability of Blastophagus piniperda L. (Col. Scolytidae) to various Pinus and the preferences of this insect in regard to these forest species.
4476

Bionomics of tur plume moth (Marasmarcha liophanes, Meyrick) on pigeon pea (Cajanns cajan, Milisp).
4477

The influence of the brood comb on food exchange between honeybee workers (Apis mellifera).
4486

Study of the phototrophism of the Noctuidae (Lepidoptera). Research on the variation of behavior following the frequency of intermittent monochromatic illumination.
4487

Attack activity of two species of gnats in southern California.
4490

The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

Food gathering behavior of the ant, Camponotus noveboracensis (Fitch) (Hymenoptera: Formicidae).
4499

Sound production in the white-pine weevil, Pissodes strobi, and the northern pine weevil, P. approximatus.
4506

Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

Inhibition of the oviposition behavior of the migrator locust (Locusta migratoria L.) caused by the salinity of the soil.
4543

Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

Contribution to the biological study of the Diptera Sarcophagidae, parasites of acridids. The biological cycle of Blaesoxipha rossica Vill., injection of larvae in the body of the host by the female Sarcophagidae.
4547

Observations on Cossus cossus L. (Cossidae).
4549

Watch for the cereal leaf beetle.
4557

Predatory activity of Luciola cruciata (Olivier, 1886) (Coleoptera: Lampyridae) larvae on newly hatched Biomphalaria glabrata.
4558

Mobility in Tribolium confusum.
4565

The ecological importance of the predatory behavior of Aphelinus asychis Walker, Hym., Aphelinidae, an endoparasite of Purcerons (Hom., Aphididae).
4566

The occurrence of Theognis occidentalis in the Midwestern United States (Heteroptera: Coreidae).
4592

Biological observations on some sandflies (Phlebotomus) of Rancho Grande (Venezuela). 3. Bionomical notes on Phlebotomus townsendi Ortiz, 1959 and P. vexillarius Fairchild Heritig, 1952.
4596

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Orientation of carrion beetles to carrion: Random or nonrandom .
4598

Single unit activity in the visual pathway of the butterfly Heliconius erato.
4605

Honey bee recruitment to food sources: Olfaction or language.
4619

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

The role of nematodes in horticulture.
4767

INSECT BIOCHEMISTRY
Amino acid requirements of the cotton stainer, Dysdercus fasciatus Signoret (Pyrrhocoridae, Hemiptera).
4447

Benzaldehyde: Defensive secretion of a harvester ant.
4460

Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

Isolation and a study of the mode of action of a polygalacturonase in insects (Pyrrhocoris apterus).
4482

The accumulation of ferritin in the nuclei and cytoplasm of certain mesenteron cells in old Homoptera Cercopidae.
4500

The presence of volatile fatty acids in the gut of a higher termite (Microcerotermes edentatus Was., Amitermitinae).
4535

Evidence, by cellulose acetate electrophoresis, of a vitellogenetic protein in the hemolymph of the female imago of the cabbage pierid (Pieris brassicae L.).
4538

Cytology and cytochemistry of the mycetone of Pseudococcus maritimus (Earhorn) (Homoptera Coccidae.
4550

Polyacrylamide gel electrophoretic analysis of the proteins of Locusta migratoria (L.) and the corresponding albino mutant.
4561

The presence of positive paraldehyde fuchsin granules in the pedicle of the ovary of Pyrilla perpusilla Walker (Insecta Homoptera Fulgoroidea).
4588

Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

Search for new insecticides.
4893

INSECT BIOLOGY
Aphidius smithi Sharma and Subba Rao (Hymenoptera: Aphidiidae) a parasite of the pea aphid new in Southern Ontario.
4350

Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

A study of Neuquenaphis Blanchard, 1939, with descriptions of new species (Aphididae, Homoptera).
4402

The egg-laying cycle in the Machiloidea (Insecta Thysanura).
4459

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

Observations on the second generation of Carpocapsa in the Loire valley.
4496

Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

Contribution to the biological study of the Diptera Sarcophagidae, parasites of acridids. The biological cycle of Blaesoxipha rossica Vill., injection of larvae in the body of the host by the female Sarcophagidae.
4547

Watch for the cereal leaf beetle.
4557

Biology of the ant Formica sanguinea Latr. (Hymenoptera, Formicidae) in the Tien Shan.
4559

The warble fly.
4568

Action of natural ionizing radiations on reproduction in the metazoa: Research on Drosophila melanogaster.
4581

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae).
4615

Biology of Gynaikothrips karnyi Bagnall, the marginal gall forming thrips of pepper.
4616

Spider mites on cotton; how to control them.
4737

The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

INSECT BREEDING
Attack activity of two species of gnats in southern California.
4490

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

Transdetermination in cells.
4637

Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

INSECT CAGES
Choice of resting site by Noctuidae (Lepidoptera).
4352

Notes on insect and gastropode damage to enclosed cotton plantations.
4671

Mosquito pollination of Habenaria obtusata (Orchidaceae).
4675

INSECT COLLECTING EQUIPMENT
Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

Attack activity of two species of gnats in southern California.
4490

Notes on methods for the extraction of small soil arthropods by the high gradient apparatus.
4552

INSECT COLLECTION
The entomological year 1966.
4351

On a collection of termites from Daman.
4369

INSECT CONTROL
Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

Are woodpeckers the answer to pine bark beetle attacks.
4450

Specificity in insecticides.
4507

Several measures used to combat fruit plant viruses.
4731

The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

Pest-management concepts and control of tick paralysis in British Columbia.
4849

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

INSECT CYTOLOGY
Evidence for important intercellular spaces in the hypodermis and paracrystalline formations in the exuvial liquid of the larvae of Galleria mellonella L. (Lepidoptera Pyralidae) during the formation of the cuticle.
4455

Mitotic activity of the first embryonic stages in the potato beetle Leptinotarsa decemlineata Say (Coleoptera, Chrysomelidae).
4457

The accumulation of ferritin in the nuclei and cytoplasm of certain mesenteron cells in old Homoptera Cercopidae.
4500

Ultrastructure of the hemocytes of Locusta migratoria (Orthoptera).
4512

Cytology and cytochemistry of the mycetone of Pseudococcus maritimus (Earhorn) (Homoptera Coccidae.
4550

New observations on the transport of intranuclear microorganisms, called Phi particles, by the spermatozoids in homopterous insects.
4556

The progress of mitosis (orthomitosis) in the manner of endomitosis in the malpighian tubules of the locust (Locusta migratoria) (Insecta, Orthoptera).
4575

Cellular degeneration in the production of some mutant phenotypes in Drosophila melanogaster.
4634

INSECT DIAPAUSE
The influence of external factors on the anticipated elimination of the diapause of Psylla pyri (Homoptera: Psyllidae).
4608

INSECT DIETS
Amino acid requirements of the cotton stainer, Dysdercus fasciatus Signoret (Pyrrhocoridae, Hemiptera).
4447

Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

A semi-synthetic diet for Eri-silkworm raising.
4492

The development of an artificial diet not containing leaf powder of any food plants for Eri-silkworm raising.
4493

Dietary choline requirements, phospholipids and development in Phormia regina.
4511

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

INSECT DISEASES
Aspects of virus multiplication and average reduplication time for a granulosis virus of Zeiraphera diniana (Guenee).
4456

The use of viruses in biological control.
4458

Test on the use of Fusarium episphaeria f. coccophila (Desm.) Snyder and Hansen in the control of the California red scale, Aonidiella aurantii.
4483

INSECT DISSEMINATION

The problem of viral latency in insect tissue cultures.
4484

Classification of the strains of Bacillus thuringiensis.
4485

The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

A preliminary study on the polyhedrosis virus of jute semilooper, Anomis sabulifera Guen.
4516

Susceptibility of irradiated insects to Bacillus thuringiensis infection.
4519

Results of experiments carried out in Hungary with Bacillus thuringiensis.
4525

Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

Crithidia mellificae n. sp. an acidophilic trypanosomatid of the honey bee Apis mellifera.
4539

The nature of pathogenicity of Pseudomonas aeruginosa for Galleria mellonella.
4551

Trans-ovum transmission of insect viruses as a biological control.
4600

An epidemic of Entomophthora among syrphid flies of the region of Geneva.
4610

Practical application of Bacillus thuringiensis.
4612

Electron microscope study of the virus of the granulosis of the fall webworm (Hyphantria cunea Drury).
4613

Virus multiplication.
4614

Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

Results of field experiments carried out in 1954 and 1955 in switzerland concerning the microbial control of the larvae of Melolontha melolontha L.
4622

Study of the virus disease of Neodiprion swainei Midd. and results of its aerial dispersion.
4758

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Search for new insecticides.
4893

INSECT DISSEMINATION

Distribution and distributional centers of North Atlantic insects.
4407

INSECT ECOLOGY

Bees of the Nevada Test Site.
4355

Distribution and distributional centers of North Atlantic insects.
4407

Contribution to the systematics and zoogeography of Halticinae (Col.) in the Canary Islands.
4410

Abundance and microdistribution of larval Chironomidae in stabilization lagoons.
4432

A new Wesmaelius from central Asia (Neuroptera, Hemerobiidae).
4434

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

A criterion of transformation for age-weight data on insect larval growth.
4481

The cryptonephridism of the larvae of Planipennia and their variations in function with the ecology of the Insecta.
4494

Further notes on the reproductive biology of the earwig Forficula auricularia L..
4510

Ecological and morphological study of robber flies of the tribe Asilini (Diptera, Asilidae) with descriptions of new genera and species from Kazakhstan and Soviet Central Asia.
4548

The ecological importance of the predatory behavior of Aphelinus asychis Walker, Hym., Aphelinidae, an endoparasite of Purcerons (Hom., Aphididae).
4566

Community studies on Hymenoptera found on Brassica napus. Part IV. Aculeata.
4567

The Plecoptera of a headwater stream (Gaitscale Gill, English Lake District).
4569

Rancho Grande (Venezuela). 2. Microhabitats of.
4595

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

INSECT EGGS

Iconography of the eggs of the Lepidoptera fauna of Belgium.
4429

Circadian clock action spectrum in a photoperiodic moth.
4465

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Some problems on developmental physiology in the silkworm egg.
4570

Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

Trans-ovum transmission of insect viruses as a biological control.
4600

Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO2 gas.
4647

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

INSECT EMBRYOS

Mitotic activity of the first embryonic stages in the potato beetle Leptinotarsa decemlineata Say (Coleoptera, Chrysomelidae).
4457

INSECT EVOLUTION

New and little known armoured scales (Homopterai Diaspididae) from South Africa. 4.
4415

Contribution to the biological study of the Diptera Sarcophagidae, parasites of acridids. The biological cycle of Blaesoxipha rossica Vill., injection of larvae in the body of the host by the female Sarcophagidae.
4547

Intraspecific qualitative and quantitative variations of the hemolymph proteins of Cophopodisma pyrenae (Fisch.), (Orthoptera, Catantopidae) as a function of biogeographic area.
4562

Patterns and pathways of chromosome evolution within the Orthoptera.
4640

INSECT FLIGHT

Ultrastructural peculiarities of the myofibrils in the flight muscles of Lepidoptera.
4452

Remarks on the structure of insect flight muscle fibrils at the striation level.
4453

INSECT GENETICS

Chromosome studies and systematics of Gryllinae (Insecta Orthoptera).
4404

On the production of males in the social Halictinae (Insecta, Hymenoptera).
4528

Evidence, by cellulose acetate electrophoresis, of a vitellogenetic protein in the hemolymph of the female imago of the cabbage pierid (Pieris brassicae L.).
4538

Some problems on developmental physiology in the silkworm egg.
4570

The chromosome formula of the cave Orthoptera Troglophilus neglectus (Rhaphidophoridae).
4590

Changes of DNA replication behavior associated with intragenic changes of the white region in Drosophila melanogaster.
4627

A specific chromosome element, the telomere of Drosophila polytene chromosomes.
4628

Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster.
4629

On the structure of the salivary chromosomes of Bilobella massoudi Cassagnau (Collembola: Neanuridae).
4630

Extra replications in the DNA-PUFFS of Sciara coprophila.
4631

The salivary gland chromosomes of the mosquito Culex pipiens. I. The normal chromosome complement.
4632

DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae).
4633

Cellular degeneration in the production of some mutant phenotypes in Drosophila melanogaster.
4634

The influence of the genotype on the frequency of radiationinduced aneuploidy in the oogenesis of Drosophila melanogaster. V. A tentative explanation of the differences in the dose-response curves.
4635

Seasonal changes in the direction of mating in Drosophila melanogaster in the experiments with a natural inversion.
4636

Transdetermination in cells.
4637

Parallel polymorphism for supernumerary segments in Chorthippus parallelus (Zetterstedt). I. British populations.
4638

Patterns and pathways of chromosome evolution within the Orthoptera.
4640

Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

Tritium labelling and cytochemistry of extra DNA in Acheta.
4642

The karyotype of some Australian species of Macropathinae (Gryllacridoidea--Rhaphidophoridae).
4643

Synapsis and crossing over within a paracentric inversion in the grasshopper, Camnula pellucida.
4644

A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin.
4645

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO2 gas.
4647

Chromosome numbers of some central European Cerambycidae. II.
4648

Sex chromatin in Lepidoptera.
4649

Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

INSECT GEOGRAPHY

Ectoparasitic mites (Acarina: Parasitiformes) from small mammals from the Tarnasjo and Ammarnas areas in Swedish Lapland.
4353

The northern species of Coleoptera group Bagous (Curculionidae) together with a taxonomic key (principally for the service of young entomologists).
4364

Coleoptera of northeast Africa. Bostrychidae.
4374

The occurrence of the solitary wasp Pterochilus phaleratus Panz. in the Scandinavian countries (Hym. Eumenidae).
4379

Burmese Ichneumoninae V. 32. Genus Naenaria Cameron.
4392

On the genus Dialineura Rondani, 1856 (Diptera, Therevidae).
4409

Stenus and Megalopinus Motschulsky genera and remarks on the subgenus Tesnus Rey, with a table of the Palearctic representatives (Coleoptera, Staphylinidae). (54. Contribution to the knowledge of the Stenus genus).
4423

Alticinae of New Guinea, III. Schenklingia and allies (Coleoptera: Chrysomelidae).
4428

A new Wesmaelius from central Asia (Neuroptera, Hemerobiidae).
4434

Revision of the nominate subgenus Sceliphron Latreille (Hymenoptera, Sphecidae) (Studies on the Sceliphronini, part I).
4435

On Orthotylus Fieb. and Pachylops Fieb. (Heteroptera, Miridae).
4436

The genus Heterotoma Lepeletier and Serville, 1825 (Synonym Acroderrhis Bergroth, 1914) (Heteroptera, Miridae).
4437

Taxonomy of the genus Paluda De Long 1937 (Homoptera Euscelidae).
4438

Further notes on the reproductive biology of the earwig Forficula auricularia L..
4510

INSECT HISTOLOGY

Remarks on the structure of insect flight muscle fibrils at the striation level.
4453

Evidence for important intercellular spaces in the hypodermis and paracrystalline formations in the exuvial liquid of the larvae of Galleria mellonella L. (Lepidoptera Pyralidae) during the formation of the cuticle.
4455

Concerning the extraocular light sensitivity of the Dictyoptera: Evidence of photoreceptors associated with the tegumentary nerves.
4464

Histochemical data on the neurosecretory allata terminations in Antheraea pernyi Guer. (Lepidoptera, Attacidae) and in Rhodnius prolixus Stal. (Hemiptera, Reduviidae).
4469

Internal anatomy of the developmental stages of the twospotted spider mite.
4520

Study of the tegumentary glands and their secretory cycle in the larva of Tipula flavolineata Meig..
4579

Study of the tracheal units and nodular tracheal cells in Tipula flavolineata Meig..
4580

INSECT IDENTIFICATION

Lepidoptera of the Nevada Test Site.
4356

A record of Megachile rotundata (F.) from Ashcroft. British Columbia.
4358

The occurrence of the solitary wasp Pterochilus phaleratus Panz. in the Scandinavian countries (Hym. Eumenidae).
4379

Studies of black flies of Panama. III. Two new species of Simulium of the subgenus Hemicnetha.
4383

Nearctic species of the genus Synaldis Foerster (Hymenoptera, Braconidae, Alysiinae).
4384

Records of Ohio fleas (Siphonaptera).
4397

Tabanidae (Diptera) of the Netherlands.
4403

Contribution to the systematics and zoogeography of Halticinae (Col.) in the Canary Islands.
4410

Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

Aphids from the subtribe Schizolachnina (Aphidoidea, Lachninae) in Middle Europe.
4420

The first discovery of free-living larvae of the ear tick, Otobius megnini (Duges), in British Columbia.
4424

Chelacheles michalskii n. sp. (Acari, Cheyletidae).
4427

Iconography of the eggs of the Lepidoptera fauna of Belgium.
4429

Annotated list of forest insects of British Columbia. XIV. Ennominae (Geometridae).
4433

The identity of Sitophilus oryzae.
4462

Fauna of the predator bugs (Hemiptera-Heteroptera) occurring on apple trees in the district of Poznan.
4532

Watch for the cereal leaf beetle.
4557

Apomyelois bistriatella: A moth which feeds in an ascomycete fungus (Lepidoptera: Pyralidae).
4583

The nymphal instars of four lace bugs from Czechoslovakia. (Heteroptera, Tingidae).
4604

Laelius utilis Cockerell (Hymenoptera: Bethylidae) stinging a child at London, Ontario.
4651

Insect and mite control on nursery stock in Ohio.
4743

Narcissus flies.
4748

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

A look at the plant pest control divison.
4887

INSECT METABOLISM

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

An action of insect hormones on carbohydrate metabolism in insects.
4531

Regulation of growth of nurse nuclei in the development of egg follicles in Cecidomyiidae (Diptera).
4564

Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

INSECT MIGRATION

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

INSECT MORPHOLOGY

Ultrastructural peculiarities of the myofibrils in the flight muscles of Lepidoptera.
4452

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

Histochemical data on the neurosecretory allata terminations in Antheraea pernyi Guer. (Lepidoptera, Attacidae) and in Rhodnius prolixus Stal. (Hemiptera, Reduviidae).
4469

The cumulative effects of long photoperiods and the determination of the phase characteristics of the migratory grasshopper, Locusta migratoria migratorioides (R. and F.), gregarious phase.
4472

Internal anatomy of the developmental stages of the twospotted spider mite.
4520

Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

Ecological and morphological study of robber flies of the tribe Asilini (Diptera, Asilidae) with descriptions of new genera and species from Kazakhstan and Soviet Central Asia.
4548

Evidence of a modified ovarian region in the hair glands of the Coleopteron, Hydrophilidae. Comparative anatomic data.
4554

Biology of the ant Formica sanguinea Latr. (Hymenoptera, Formicidae) in the Tien Shan.
4559

The warble fly.
4568

Some problems on developmental physiology in the silkworm egg.
4570

INSECT MUTATION

The particle lining of the plasmic membrane in connection with excretion in a specialized region of the middle intestine of higher termites. 4574

Prothetely in Carabidae of the genus Pterostichus. 4577

Recent data on the origin of larval polymorphism at hatching in the migratory grasshopper, Schistocerca gregaria Forskal. 4578

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet. 4602

Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae). 4615

Drosophila deoxyribonucleases. I Variation of deoxyribonucleases in Drosophila melanogaster. 4629

Transdetermination in cells. 4637

Parallel polymorphism for supernumerary segments in Chorthippus parallelus (Zetterstedt). I. British populations. 4638

The myiasis fly of the African aardvark (Orycteropus afer (Pallas)). 4852

INSECT MUTATION

Polyacrylamide gel electrophoretic analysis of the proteins of Locusta migratoria (L.) and the corresponding albino mutant. 4561

A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin. 4645

INSECT NEMATODES

The infection of immature aquatic insects by larval Paragordius (Nematomorpha). 4620

INSECT NESTS

Comparison of the structure and architecture of some nests of Evylaeus (Hym., Halictidae) at the cell region. 4527

INSECT NUTRITION

Amino acid requirements of the cotton stainer, Dysdercus fasciatus Signoret (Pyrrhocoridae, Hemiptera). 4447

Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids. 4451

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality. 4517

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L. 4518

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet. 4602

INSECT OUTBREAK FORECASTING

Observations on the second generation of Carpocapsa in the Loire valley. 4496

INSECT OUTBREAKS

Biology and control of native and introduced forest insects in the Nearctic Zone. 4375

Are woodpeckers the answer to pine bark beetle attacks . 4450

INSECT PESTS

First records of eye-frequenting moths from Ceylon. 4365

Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae). 4385

The use of viruses in biological control. 4458

The introduction, release, and recovery of parasites of the alfalfa weevil in Eastern United States. 4466

Test on the use of Fusarium episphaeria f. coccophila (Desm.) Snyder and Hansen in the control of the California red scale , Aonidiella aurantii. 4483

Observations on the second generation of Carpocapsa in the Loire valley. 4496

Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ. 4505

Sound production in the white-pine weevil, Pissodes strobi, and the northern pine weevil, P. approximatus. 4506

Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks. 4514

The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France. 4544

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey. 4597

Trans-ovum transmission of insect viruses as a biological control. 4600

Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae). 4615

Biology of Gynaikothrips karnyi Bagnall, the marginal gall forming thrips of pepper. 4616

Laelius utilis Cockerell (Hymenoptera: Bethylidae) stinging a child at London, Ontario. 4651

Breeding work for the creation of glandless cotton varieties in chad. 4654

The important forest pests of Spain. 4660

Cultivation of the sapogenin-bearing Dioscorea species. 4664

Notes on insect and gastropode damage to enclosed cotton plantations. 4671

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing. 4678

Some pests of ornamental plants in Madras. 4735

The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L. 4736

Spider mites on cotton; how to control them. 4737

Control of date palm leafhoppers in Iraq by aerial spraying. 4739

Thrips infesting the tips of asparagus spears. 4740

The meaning and definition of biological control. 4742

Insect and mite control on nursery stock in Ohio. 4743

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta. 4745

Hard-to-kill pests of fruit trees--woolly apple-aphid. 4747

Influence of infestation by early shoot borer Chilotraea infuscatellus Sn. on shoot production and yield of sugarcane. 4751

Study of the virus disease of Neodiprion swainei Midd. and results of its aerial dispersion. 4758

Resistance of Lycopersicon species to the carmine spider mite. 4760

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France. 4761

Contributions to the (Diptera, Simuliidae) fauna of Austria. III. The fauna of the valley of the YBBS. 4851

Bulk wheat pests can be controlled by simple precautions. 4866

Our struggle against pests. II. 4872

Ag firm concentrates on waterless spraying. 4943

Our struggle against pests. 4960

INSECT PHYSIOLOGY

Abundance and microdistribution of larval Chironomidae in stabilization lagoons. 4432

Annotated list of forest insects of British Columbia. XIV. Ennominae (Geometridae). 4433

Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids. 4451

The action of dark phases of varying durations in the circadian, ultra- and infra-circadian rhythms on the production of winged gynophores of Dysaphis plantaginea Pass. (Homoptera, Aphididae). 4461

Concerning the extraocular light sensitivity of the Dictyoptera: Evidence of photoreceptors associated with the tegumentary nerves. 4464

Circadian clock action spectrum in a photoperiodic moth. 4465

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae). 4467

Teratological effects on the nymphs and adults of insects, the larvae of which have ingested sublethal doses of the thermostable toxin of Bacillus thuringiensis Berliner. 4468

The influence of weight of newly-hatched larvae on the determination of the phase characteristics of the migratory locust, Locusta migratoria migratorioides (R. and F.), gregarious phase. 4471

The cumulative effects of long photoperiods and the determination of the phase characteristics of the migratory grasshopper, Locusta migratoria migratorioides (R. and F.), gregarious phase. 4472

The influence of the corpora cardiaca on the duration of the fourth and fifth instars of Locusta migratoria L.. 4473

Cardiac activity of Locusta migratoria in vitro and the influence of the corpora cardiaca. Perfection of an experimental method and preliminary results. 4474

Electrophysiological evidence of the tactile function of the sensillary trichia on the antenna of the Speophyes lucidulus Delarouzee (cave Coleoptera) larva. 4479

The regulatory capacity of the dorsal mesothoracic disc in Ceratitis capitata Wied (Diptera, Trypetidae).
4480

A criterion of transformation for age-weight data on insect larval growth.
4481

Isolation and a study of the mode of action of a polygalacturonase in insects (Pyrrhocoris apterus).
4482

The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

A semi-synthetic diet for Eri-silkworm raising.
4492

The development of an artificial diet not containing leaf powder of any food plants for Eri-silkworm raising.
4493

The cryptonephridism of the larvae of Planipennia and their variations in function with the ecology of the Insecta.
4494

The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

The existence of inclusions which have a lamella ultrastructure in the nucleus of certain bacteriocytes in the adipose tissue of Periplaneta americana (Insecta, Blattidae).
4498

Inactivation of juvenile hormone like compounds in insects.
4501

Sound production in the white-pine weevil, Pissodes strobi, and the northern pine weevil, P. approximatus.
4506

Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

The results of large dose injections of juvenile hormone in Locusta migratoria, gregarious phase.
4522

Cytoplasmic particles carrying rapidly labeled RNA in developing insect epidermis.
4523

An action of insect hormones on carbohydrate metabolism in insects.
4531

The presence of volatile fatty acids in the gut of a higher termite (Microcerotermes edentatus Was., Amitermitinae).
4535

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). The importance of the composition of the medium for survival, growth, and yolk formation.
4541

The mode of action of the corpora allata in the course of yolk formation in Tenebrio molitor (Coleoptera).
4542

Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

Evidence of a modified ovarian region in the hair glands of the Coleopteron, Hydrophilidae. Comparative anatomic data.
4554

On the presence of a virus in the testicle of a homopteran insect.
4555

Biology of the ant Formica sanguinea Latr. (Hymenoptera, Formicidae) in the Tien Shan.
4559

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

A new culture method for Rhynchosciara.
4563

Some problems on developmental physiology in the silkworm egg.
4570

The role of the exuvial fluid swallowed before emergence, in the expansion of the wings of Bombyx mori L..
4572

Polymorphism in males of the sugarcane leafhopper, Perkinsiella saccharicida.
4576

Study of the tegumentary glands and their secretory cycle in the larva of Tipula flavolineata Meig..
4579

Diapause in Apanteles congregatus.
4586

Intranuclear crystals in the midgut epithelium of a flea.
4589

Electrical resistance of intact integument throughout the molt cycle of a cockroach.
4593

The possibilities of regulating the labial imaginal disc in Calliphora erythrocephala Meigen.
4594

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

The nymphal instars of four lace bugs from Czechoslovakia. (Heteroptera, Tingidae).
4604

Single unit activity in the visual pathway of the butterfly Heliconius erato.
4605

Study of the corpus allatum in living larvae of the blow fly Calliphora erythrocephala Mg. (Diptera, Calliphoridae).
4606

Effect of high temperatures on the resistance of insects to infectious diseases.
4607

The action of different temperatures on the duration of postembryonic development and the duration between molts in adults of six species of epigeous and cave Collembola, Hypogastruridae.
4609

A comparative morphological study of the male external genitalia of the type-species of some South African Notodontidae (Lepidoptera).
4611

Honey bee recruitment to food sources: Olfaction or language.
4619

Physiological responses of insects to nicotine.
4623

Electrophysiological study of contact chemoreceptors in bloodsucking Diptera.
4624

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

Esterase and phosphatase polymorphism in natural population of wild silkworm, Theophila mandarina L.
4626

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

Search for new insecticides.
4893

INSECT POLLINATORS

Mosquito pollination of Habenaria obtusata (Orchidaceae).
4675

INSECT POPULATIONS

Abundance and microdistribution of larval Chironomidae in stabilization lagoons.
4432

Investigations of fauna overwintering in or under the bark of apple trees. Part II. Studies on Arachnida.
4534

Community studies on Hymenoptera found on Brassica napus. Part IV. Aculeata.
4567

Polymorphism in males of the sugarcane leafhopper, Perkinsiella saccharicida.
4576

INSECT PRESERVATION

Observations on the preservation of Lepidoptera specimens.
4349

INSECT PROTECTIVE DEVICES

Benzaldehyde: Defensive secretion of a harvester ant.
4460

INSECT REARING

Aphidius smithi Sharma and Subba Rao (Hymenoptera: Aphidiidae) a parasite of the pea aphid new in Southern Ontario.
4350

Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

A semi-synthetic diet for Eri-silkworm raising.
4492

The development of an artificial diet not containing leaf powder of any food plants for Eri-silkworm raising.
4493

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

A new culture method for Rhynchosciara.
4563

Biological observations on some sandflies (Phlebotomus) of Rancho Grande (Venezuela). 3. Bionomical notes on Phlebotomus townsendi Ortiz, 1959 and P. vexillarius Fairchild Heritig, 1952.
4596

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

INSECT REPELLENTS

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

INSECT REPRODUCTION

New European Orthoptera.
4390

On parthenogenic reproduction in Arammichnus cribricollis Gyll (Insecta Coleoptera Curculionidae).
4463

Further notes on the reproductive biology of the earwig Forficula auricularia L..
4510

On the continuous or periodic production of broods in the Halictinae (Insecta, Hymenoptera).
4526

On the production of males in the social Halictinae (Insecta, Hymenoptera).
4528

Action of natural ionizing radiations on reproduction in the metazoa: Research on Drosophila melanogaster.
4581

INSECT TAXONOMY

Ectoparasitic mites (Acarina: Parasitiformes) from small mammals from the Tarnasjo and Ammarnas areas in Swedish Lapland.
4353

Bees of the Nevada Test Site.
4355

Study of the genus Rhytidodus Fieb. (Homoptera, auchenorrhyncha) with description of two new species from the Soviet Union.
4357

A new Crompus from New Caledonia. (HemipteraHeteroptera: Lygaeidae).
4359

Chalicidoidea (Hymenoptera) in the Manchester Museum. Part 5.
4360

Listing of Trifid noctuidae of France and Belgium.
4361

Valley centipedes (Chilopoda, Symphyla) from northern Kentucky.
4362

The northern species of Coleoptera group Bagous (Curculionidae) together with a taxonomic key (principally for the service of young entomologists).
4364

Six new species of Membracidae (Hemiptera: Homoptera) from South Africa.
4366

A new genus and species of Psyllidae (Homoptera) from South Africa.
4367

The genus Gargara Anyot Serville (Homoptera: Membracidae) in South Africa.
4368

On a collection of termites from Daman.
4369

The Collembola of South Africa--2: The genus Scira.
4370

The Collembola of South Africa--I: The genus Neanura.
4371

The discovery in France of the Acarina Nematalycidae Strenzke while organizing the material from Languedoc-Rousillon.
4372

Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae).
4376

Two Dolichopodidae (Diptera) from St. Helena Island South Atlantic.
4378

Coleoptera from northeast Africa. Mordellidae. Supplement: Paraconalia n. gen. a new genus from South America. 64. Contribution to the knowledge of the Mordellids.
4380

New species of Meromyza Mg. (Diptera, Chloropidae) from Transbaykalia.
4381

New Malthodes from western North America (Coleoptera: Cantharidae).
4382

Studies of black flies of Panama. III. Two new species of Simulium of the subgenus Hemicnetha.
4383

Nearctic species of the genus Synaldis Foerster (Hymenoptera, Braconidae, Alysiinae).
4384

Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae).
4385

A new species of Asterolecanium Targ. (Homoptera: Coccoidea: Asterolecaniidae) from South Africa.
4387

Chrysomelid beetles from the Papuan subregion, 5 (Eumolpinae, 3).
4388

Lepidoptera of southern Spain.
4389

New European Orthoptera.
4390

New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar.
4391

Burmese Ichneumoninae V. 32. Genus Naenaria Cameron.
4392

A new Somatina of the Congo. (Lepidoptera Geometridae).
4393

A contribution to the knowledge of the Cerambycidae and the Oedemeridae of Iran.
4394

A revision of the Cosmopterigidae of American north of Mexico, with a definition of the Momphidae and Walshiidae (Lepidoptera: Gelechioidea).
4395

Further notes on the genus Pulvinaria Targ. (Homoptera: Coccoidea) from the Ethiopian region.
4396

Records of Ohio fleas (Siphonaptera).
4397

Aleochara stichai Likovsky (Col., Staphylinidae) new to Britain.
4398

Hypocyphtus nitidus Palm (Col., Staphylinidae) in Oxforoshire: An addition to the British list.
4399

New species of Meubelia Willemse, 1932, from the Philippines (Orthoptera: Pyrgomorphidae).
4400

A new genus and species of Sciomyzidae from Tanzania, with a key to the genera of the Ethiopian region and distributional notes (Diptera: Facalyptratae).
4401

A study of Neuquenaphis Blanchard, 1939, with descriptions of new species (Aphididae, Homoptera).
4402

Tabanidae (Diptera) of the Netherlands.
4403

Chromosome studies and systematics of Gryllinae (Insecta Orthoptera).
4404

A note on the family Euptychia (s. l.) (Lep. Satyridae).
4405

Four new sawflies from Sweden (Hymenoptera, Symphyta).
4406

Systematics of the Cryptocephalinae (Coleoptera, Chrysomelidae) from Soviet Central Asia and Kazakhstan.
4408

On the genus Dialineura Rondani, 1856 (Diptera, Therevidae).
4409

A review of darkling beetles of the tribe Leptodini (Coleoptera, Tenebrionidae).
4411

Ichneumonidae (Hymenoptera) collected in paddy fields of the Orient, with descriptions of new species. Part 2. Subfamilies Porizontinae, Metopiinae and Diplazontinae.
4412

Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

New synonymy in the South African genus Synaptothrips Trybom (Thysanoptera) with a key to the species.
4414

New and little known armoured scales (Homopterai Diaspididae) from South Africa. 4.
4415

New Palearctic species of the genus Cyphon Payk. IV. Studies on the Helodidae family. IX.
4416

Records and descriptions of Palearctic and south Asiatic Laspeyresiini (Lepidoptera: Tortricidae).
4417

A revision of the subgenus Hirtodrosophila of the Old World, with descriptions of some new species and subspecies (Diptera, Drosophilidae, Drosophila).
4418

A new Schistoglossa specie from Sweden (Col. Staphylinidae, Aleocharinae).
4419

Aphids from the subtribe Schizolachnina (Aphidoidea, Lachninae) in Middle Europe.
4420

Concerning the taxonomic clarification of Narraga tessularia ilia Whli and some remarks about this genus. (Lepidoptera, geometridae).
4421

A new subgenus and new species of Franciscoloa conci (Mallophaga: Menoponidae).
4422

Stenus and Megalopinus Motschulsky genera and remarks on the subgenus Tesnus Rey, with a table of the Palearctic representatives (Coleoptera, Staphylinidae). (54. Contribution to the knowledge of the Stenus genus).
4423

Redefined concept of the genus Synaptothrips with redescriptions of two species (Thysanoptera: Thripidae).
4426

Chelacheles michalskii n. sp. (Acari, Cheyletidae).
4427

Alticinae of New Guinea, III. Schenklingia and allies (Coleoptera: Chrysomelidae).
4428

Iconography of the eggs of the Lepidoptera fauna of Belgium.
4429

A new species of Ecnomus McLachlan (Trichoptera: Psychomyidae) from South Africa.
4430

On nocturnal darkling beetles of the genus Melanesthes Lac. (Scoleoptera, Tenebrionidae) from central Kazakhstan.
4431

Annotated list of forest insects of British Columbia. XIV. Ennominae (Geometridae).
4433

A new Wesmaelius from central Asia (Neuroptera, Hemerobiidae).
4434

Revision of the nominate subgenus Sceliphron Latreille (Hymenoptera, Sphecidae) (Studies on the Sceliphronini, part I).
4435

On Orthotylus Fieb. and Pachylops Fieb. (Heteroptera, Miridae).
4436

The genus Heterotoma Lepeletier and Serville, 1825 (Synonym Acroderrhis Bergroth, 1914) (Heteroptera, Miridae).
4437

Taxonomy of the genus Paluda De Long 1937 (Homoptera Euscelidae).
4438

Enumeration of the Microlepidoptera encountered in the region of Warsage.
4439

Identification of the braconid parasites of rice borers (Hymenoptera: Braconidae).
4440

The identity of the British Mondsynamma Scott 1864 (Hem., Miridae).
4442

Studies on the Japanese gall midges II, two new and a known species of the genus Camptomyia from Kyushu (Diptera: Cecidomyiidae).
4443

New species of Hypera (Coleoptera, Curculionidae) from the Crimean Mountains.
4444

New species of the genus Trachina Mg. (diptera, Tachnidae), parasites of injurious Lepidoptera in the Ussr.
4445

New records of South African Thysanoptera with description of a new Phlaeothripid genus.
4446

Lopidea Uhler: New species and records from Mexico and southwestern United States with Mayamiris, related new genus from Mexico (Hemiptera, Miridae).
4530

Aradidae in the Bishop Museum, Honolulu (HemipteraHetcroptera).
4533

Ecological and morphological study of robber flies of the tribe Asilini (Diptera, Asilidae) with descriptions of new genera and species from Kazakhstan and Soviet Central Asia.
4548

Remarks concerning the terminology of the genitalia armor in the genus Argynnis (S.L.). (Lepidoptera, Nymphalidae).
4573

The chromosome formula of the cave Orthoptera Troglophilus neglectus (Rhaphidophoridae).
4590

The nymphal instars of four lace bugs from Czechoslovakia. (Heteroptera, Tingidae).
4604

INSECT VECTORS
Effect of high temperatures on the resistance of insects to infectious diseases.
4607

The viruses of the black and red currant.
4705

Form and mechanism of transmission of plant viruses. Transmission of viruses by arthropods.
4728

Several measures used to combat fruit plant viruses.
4731

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

Experimental transmission of plague by Synopsyllus fonquerniei of Madagascar.
4800

INSECTICIDAL PLANTS
Search for new insecticides.
4893

INSECTICIDE APPLICATION
The boll weevil; How to control it. Part II.
4348

Termite control in rubber plantations.
4521

Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

Aircraft operations in the Colusa project.
4944

INSECTICIDE RESIDUES
Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

The determination of the amount of diazinon residues in foodstuff by means of labeled diazinon. (Summary).
4877

Persistence of DDT in crayfish in a natural environment.
4878

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultrual commoditics. Dodecachlorooctahydro-1,3,4-metheno-2th-cyclobuta (cd) pentalene.
4882

Use insecticides safely.
4901

INSECTICIDE RESISTANT INSECTS
Hard-to-kill pests of fruit trees--woolly apple-aphid.
4747

Results of a study on controlling Tipula olercea L. showing a marked resistance to some chlororganic insecticides.
4750

Search for new insecticides.
4893

INSECTICIDE SYNERGISTS
Specificity in insecticides.
4507

INSECTICIDES
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

Specificity in insecticides.
4507

Termite control in rubber plantations.
4521

Watch for the cereal leaf beetle.
4557

The warble fly.
4568

Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

Diazinon against plant pests.
4655

Some pests of ornamental plants in Madras.
4735

Insect and mite control on nursery stock in Ohio.
4743

Hard-to-kill pests of fruit trees--woolly apple-aphid.
4747

Results of a study on controlling Tipula olercea L. showing a marked resistance to some chlororganic insecticides.
4750

Don't take lightly these brinjal borers.
4759

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

Pest-management concepts and control of tick paralysis in British Columbia.
4849

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog.
4881

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

Search for new insecticides.
4893

Some observations concerning the maximum dosage ordinance.
4897

Use insecticides safely.
4901

The pesticide review.
4952

Some problems of method and content in working-up a forecast -demonstrated on the example of the plant protection- and pesticide manufacturing industry.
4957

INSECTS
Distribution and distributional centers of North Atlantic insects.
4407

Germination of Russian thistle seeds.
4916

INTEGRATED CONTROL (INSECTS)
The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller).
4553

Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

INTEGRATED CONTROL (PESTS)
Bulk wheat pests can be controlled by simple precautions.
4866

Our struggle against pests. II.
4872

INTERFERENCE PHENOMENON
The role of interferon in the interference phenomenon between vaccinia virus and fixed rabies virus.
4847

INTERFERON
The role of interferon in the interference phenomenon between vaccinia virus and fixed rabies virus.
4847

INTERNATIONAL COOPERATION
How Ian Hendrif is steering Shell International into expanding pesticide markets.
4948

We can solve international residue problem if...
4956

INTERSTATE COMMERCE
Domestic quarantine notices. Soybean cyst nematode. Quarantine and regulations.
4764

INTESTINES
The presence of volatile fatty acids in the gut of a higher termite (Microcerotermes edentatus Was., Amitermitinae).
4535

Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966.
4795

Preliminary study of an intestinal virus isolated from a lesion in baland-posthite cattle.
4810

INVERTEBRATES
An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

IONIZATION
Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

Structure of Klein's metabolites of aldrin and of dieldrin.
4926

IONIZING RADIATION
Action of natural ionizing radiations on reproduction in the metazoa: Research on Drosophila melanogaster.
4581

IPS SEXDENTATUS
Research on the odoriferous constituents of the terpenic fumes of various substances and their action on Ips sexdentatus Boerner (Coleoptera, Scolytidae).
4475

IRON
Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

Sideroleucocytes as a diagnostic aid in equine infectious anaemia.
4815

IRRADIATION
The influence of the genotype on the frequency of radiationinduced aneuploidy in the oogenesis of Drosophila melanogaster. V. A tentative explanation of the differences in the dose-response curves.
4635

Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

IRRIGATION
Irrigation by spraying.
4659

Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

IRRIGATION DITCHES
Persistence and movement of parathion in irrigation waters.
4871

ISOMERS
Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

ISOPRENOIDS
Inactivation of juvenile hormone like compounds in insects.
4501

ISOPROPYL-4-DIMETHYLAMINO-5-METHYLPHENYL 1-PIPERIDINECARBOXY
The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

ISOPTERA
The infrastructural morphology of Pillotina calotermitidis nov. gen., nov. sp., a Spirochaetales of the intestine of Calotermes praecox.
4513

The presence of volatile fatty acids in the gut of a higher termite (Microcerotermes edentatus Was., Amitermitinae).
4535

JUVENILE HORMONE
Inactivation of juvenile hormone like compounds in insects.
4501

The results of large dose injections of juvenile hormone in Locusta migratoria, gregarious phase.
4522

KALE
Studies on chemical weed control with fodder kale.
4771

A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure.
4937

KIDNEYS
The cryptonephridism of the larvae of Planipennia and their variations in function with the ecology of the Insecta.
4494

KLEBSIELLA PNEUMONIAE
Opsonins examination in the mouse after endotoxin-induced resistance to infection.
4833

KOHLRABI
Effect of foliar sprays of plant regulators (IAA and GA) on the growth and yield of Knol Khol (Brassica oleracea Linn. var. gongylodes).
4918

LABELING
Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

Use insecticides safely.
4901

LABOR PRODUCTIVITY
Weeds and their control.
4782

LABORATORY ANIMALS
Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

Therapeutic effect of SDDS (2-sulfamoyl-4,4'-diaminodiphenyl sulfone) on experimental toxoplasmosis.
4843

A tidal rhythm in the susceptibility of Fundulus similis to sodium chloride and endrin.
4896

LABORATORY EQUIPMENT
On the investigative methods of the sound characteristics of small cicadas (Homoptera-Cicadina).
4603

LACTATE DEHYDROGENASE
Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

LACTATES
Intracellular localization and characteristics of lactate dehydrogenase activity of Salmonella typhosa (NCTC 8385).
4936

LAELIUS UTILIS
Laelius utilis Cockerell (Hymenoptera: Bethylidae) stinging a child at London, Ontario.
4651

LAMPYRIDAE
Predatory activity of Luciola cruciata (Olivier, 1886) (Coleoptera: Lampyridae) larvae on newly hatched Biomphalaria glabrata.
4558

LARD
On the antioxidative mechanism of alpha-, beta-, gamma- and delta tocopherols in lard.
4865

LARGUS CINCTUS
The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

LARIX OCCIDENTALIS
Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

LARVAE
Taxonomic notes on the larva of British Diptera. no. 25, The larva and pupa of Dioctria rufipes (Degeer) (Asilidae).
4363

The first discovery of free-living larvae of the ear tick, Otobius megnini (Duges), in British Columbia.
4424

Abundance and microdistribution of larval Chironomidae in stabilization lagoons.
4432

Annotated list of forest insects of British Columbia. XIV. Ennominae (Geometridae).
4433

Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

Evidence for important intercellular spaces in the hypodermis and paracrystalline formations in the exuvial liquid of the larvae of Galleria mellonella L. (Lepidoptera Pyralidae) during the formation of the cuticle.
4455

Aspects of virus multiplication and average reduplication time for a granulosis virus of Zeiraphera diniana (Guenee).
4456

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

The influence of weight of newly-hatched larvae on the determination of the phase characteristics of the migratory locust, Locusta migratoria migratorioides (R. and F.), gregarious phase.
4471

The influence of the corpora cardiaca on the duration of the fourth and fifth instars of Locusta migratoria L..
4473

Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

Electrophysiological evidence of the tactile function of the sensillary trichia on the antenna of the Speophyes lucidulus Delarouzee (cave Coleoptera) larva.
4479

A criterion of transformation for age-weight data on insect larval growth.
4481

The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

Action of ecdysone on the larvae of Drosophila melanogaster subjected to starvation. The existence of two pre-requisites for the formation of the puparium.
4491

A semi-synthetic diet for Eri-silkworm raising.
4492

The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

Contribution to the biological study of the Diptera Sarcophagidae, parasites of acridids. The biological cycle of Blaesoxipha rossica Vill., in-

jection of larvae in the body of the host by the female Sarcophagidae.
4547

Predatory activity of Luciola cruciata (Olivier, 1886) (Coleoptera: Lampyridae) larvae on newly hatched Biomphalaria glabrata.
4558

A new culture method for Rhynchosciara.
4563

Prothetely in Carabidae of the genus Pterostichus.
4577

Recent data on the origin of larval polymorphism at hatching in the migratory grasshopper, Schistocerca gregaria Forskal.
4578

Study of the tegumentary glands and their secretory cycle in the larva of Tipula flavolineata Meig..
4579

Study of the tracheal units and nodular tracheal cells in Tipula flavolineata Meig..
4580

Diapause in Apanteles congregatus.
4586

Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Study of the corpus allatum in living larvae of the blow fly Calliphora erythrocephala Mg. (Diptera, Calliphoridae).
4606

The influence of external factors on the anticipated elimination of the diapause of Psylla pyri (Homoptera: Psyllidae).
4608

The infection of immature aquatic insects by larval Paragordius (Nematomorpha).
4620

Results of field experiments carried out in 1954 and 1955 in switzerland concerning the microbial control of the larvae of Melolontha melolontha L.
4622

Extra replications in the DNA-PUFFS of Sciara coprophila.
4631

Transdetermination in cells.
4637

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

Results of a study on controlling Tipula olercea L. showing a marked resistance to some chlororganic insecticides.
4750

Larval development of a nematode parasite of the dog circulatory system in dulcaquicoles mollusks.
4857

Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

LARVICIDES
Aircraft operations in the Colusa project.
4944

LASIODERMA SERRICORNE
Response of some stored-product insects to Trogoderma granarium pheromones.
4625

LASPEYRESIA CARYANA
Attractant and feeding responses of hickory suckworm larvae to certain extracts of pecan shucks.
4514

LASPEYRESIA TOREUTA
A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

LEAF BLIGHT
Fairway disease control.
4674

LEAF CURL
Disease control in nonbearing orchards.
4699

LEAF RUST
1967 field trials on control of coffee berry disease in Kenya. I.-V.
4698

LEAF SPOT
Fairway disease control.
4674

Disease control in nonbearing orchards.
4699

Fungus diseases of bermudagrass and overseeded coolseason grasses on golf greens.
4730

LEAVES
The resistance of Fx and IAN rubber clones to leaf diseases in Brazil.
4693

Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

LEGISLATION
Pessimism over crop diseases.
4679

Domestic quarantine notices. Soybean cyst nematode. Quarantine and regulations.
4764

Our struggle against pests. II.
4872

A look at the plant pest control divison.
4887

Some observations concerning the maximum dosage ordinance.
4897

Our struggle against pests.
4960

Part II proposed for paraquat.
4962

The law and the use of pesticides.
4964

LEMONS
Effects of chemical preservatives and storage on constituents used to characterize lemon juice.
4940

LENACIL
Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

LEPIDOPTERA
Observations on the preservation of Lepidoptera specimens.
4349

Lepidoptera of the Nevada Test Site.
4356

Panthea coenobita Esp. in the French Jura. (Lepidoptera Noctuidae Pantheinae).
4377

Lepidoptera of southern Spain.
4389

Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

Iconography of the eggs of the Lepidoptera fauna of Belgium.
4429

Enumeration of the Microlepidoptera encountered in the region of Warsage.
4439

Ultrastructural peculiarities of the myofibrils in the flight muscles of Lepidoptera.
4452

Bionomics of tur plume moth (Marasmarcha liophanes, Meyrick) on pigeon pea (Cajanns cajan, Milisp).
4477

Remarks concerning the terminology of the genitalia armor in the genus Argynnis (S.L.). (Lepidoptera, Nymphalidae).
4573

Practical application of Bacillus thuringiensis.
4612

Sex chromatin in Lepidoptera.
4649

LEPIDOSAPHES BECKII
Imported and indigenous natural enemies of citrus coccids and aphids in Cyprus, and an assessment of their potential value in integrated control programmes.
4763

LEPTINOTARSA DECEMLINEATA
Mitotic activity of the first embryonic stages in the potato beetle Leptinotarsa decemlineata Say (Coleoptera, Chrysomelidae).
4457

The influence of the fungus Beauveria bassiana Vuill. on the fertility and the diapause of Leptinotarsa decemlineata Say.
4488

The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France.
4544

LEPTOCONOPS KERTESZI
Attack activity of two species of gnats in southern California.
4490

LEPTOGLOSSUS OCCIDENTALIS
The occurrence of Theognis occidentalis in the Midwestern United States (Heteroptera: Coreidae).
4592

LEPTOSPIRA
Intermediate energy metabolism of Leptospira.
4796

Terminal electron transport in Leptospira.
4797

LEPTOSPIROSIS
Experiences about the tolerance and use of Stagloban in the dog.
4836

LESIONS
Effect of mixed spore inocula of Botrytis ssp. on lesion development in the leaves of bean (Vicia faba L.).
4718

LETTUCE
Sex lure hoax may prove male beet wireworm's undoing.
4765

LEUCINE
Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

LEUCINODES ORBONALIS
Don't take lightly these brinjal borers.
4759

LEUKOCYTES
Sideroleucocytes as a diagnostic aid in equine infectious anaemia.
4815

LIFE CYCLE
The egg-laying cycle in the Machiloidea (Insecta Thysanura).
4459

The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

Obligatory and additional hosts of helminths.
4859

LIGHT
The cumulative effects of long photoperiods and the determination of the phasc characteristics of the migratory grasshopper, Locusta migratoria migratorioides (R. and F.), grcgarious phase.
4472

Study of the phototrophism of the Noctuidae (Lcpidoptera). Research on the variation of behavior following the frequcncy of intermittent monochromatic illumination.
4487

Unstablc multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

Thc effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare secdlings.
4685

Thc influence of illumination on the dcvelopment of tumors causcd by Agrobacterium tumefaciens (Smith and Town) Conn. on pea scedlings, Pisum sativum L..
4707

Trials with carbon dioxide, light and growth substances on forest trcc plants.
4909

LIGHT TRAPS
Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

LIMING
Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

LIMONIIDAE
Several discoveries of Tipulidae and Limoniidae (Dipt.) from Corsica.
4386

LIMONIUS CALIFORNICUS
Sex lure hoax may prove male beet wircworm's undoing.
4765

LINDANE
Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

Don't take lightly these brinjal borers.
4759

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticide residues in cultivated mushrooms.
4891

LINGUATULA SERRATA
Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

LIPIDS
Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

LIVER
Choleresis in sheep.
4830

LIVESTOCK DISEASES
Respiratory disease in the pig. II.
4798

The focal distribution of lesions of porcine hypernatremic eosinophilic meningo-encephalitis for diagnostic purposes.
4803

Observations on the practical use of the rapid mastitis test.
4821

Axis cylinder degencration associated with ryegrass staggcrs in shecp and cattle.
4825

Costing acute Mareks disease.
4828

Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases.
4829

Choleresis in sheep.
4830

Incidence of hydatosis in livestock in Lahore.
4842

The pale muscle problem in pigs.
4845

Control of bovine tuberculosis and list of officially certified herds.
4846

Pest-management concepts and control of tick paralysis in British Columbia.
4849

LOCOMOTION
Mobility in Tribolium confusum.
4565

LOCUSTA MIGRATORIA
Comparative effects of allatectomy on the activity of the male accessory glands and on the sexual behavior of two acridids: Schistocerca gregaria and Locusta migratoria (sub-species migratorioides and Razalinsk).
4470

The cumulative effects of long photoperiods and the determination of the phase characteristics of the migratory grasshopper, Locusta migratoria migratorioides (R. and F.), gregarious phase.
4472

The influence of the corpora cardiaca on the duration of the fourth and fifth instars of Locusta migratoria L..
4473

Cardiac activity of Locusta migratoria in vitro and the influence of the corpora cardiaca. Perfection of an experimental method and preliminary results.
4474

Ultrastructure of the hemocytes of Locusta migratoria (Orthoptera).
4512

The results of large dose injections of juvenile hormone in Locusta migratoria, gregarious phase.
4522

Inhibition of the oviposition behavior of the migrator locust (Locusta migratoria L.) caused by the salinity of the soil.
4543

Polyacrylamide gel electrophoretic analysis of the proteins of Locusta migratoria (L.) and the corresponding albino mutant.
4561

The progress of mitosis (orthomitosis) in the manner of endomitosis in the malpighian tubules of the locust (Locusta migratoria) (Insecta, Orthoptera).
4575

LOCUSTA MIGRATORIA MIGRATORIOIDES
The influence of weight of newly-hatched larvae on the determination of the phase characteristics of the migratory locust, Locusta migratoria migratorioides (R. and F.), gregarious phase.
4471

LOGS
Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

LOLIUM
Axis cylinder degeneration associated with ryegrass staggers in sheep and cattle.
4825

LONGIDORUS ELONGATUS
Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contact of roots.
4702

LOPIDEA
Lopidea Uhler: New species and records from Mexico and southwestern United States with Mayamiris, related new genus from Mexico (Hemiptera, Miridae).
4530

LUMBER PRESERVATIVES
Preservative treatments and service life of fence posts in Puerto Rico.
4658

LYCAENIDAE
Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

LYGAEIDAE
A new Crompus from New Caledonia. (HemipteraHeteroptera: Lygaeidae).
4359

A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin.
4645

LYGUS HESPERUS
Fceding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

LYMPH
Nymphal stage of Linguatula serrata found in mesentcric lymph node of a bovine.
4861

MACERATION
Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

MACHILIDAE
The egg-laying cycle in the Machiloidea (Insecta Thysanura).
4459

MACROPHOMINA PHASEOLI
Physiological studies on incitants of guava wilt Fusarium solani (Mart.) App. and Wr. emend Snyder and Hansen and Macrophomina phaseoli (Maubl.) Ashby.
4688

Contribution to the study of a parasitic complex which attaches itself to the exposed parts of cotton plants and causes their withering.
4712

MACROPOPILLIA ARROWI
Some pests of ornamental plants in Madras.
4735

MAGGOTS
The warble fly.
4568

Narcissus flies.
4748

MALATHION
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

Specificity in insecticides.
4507

Watch for the cereal leaf beetle.
4557

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

MALPIGHIAN TUBES
The particle lining of thc plasmic membrane in connection with excretion in a specialized region of the middle intestine of higher termites.
4574

MAMMALS
Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Imidazole: Fungitoxic derivatives.
4902

MAMMARY GLANDS
Hormonal effect on certain glycolytic enzymes of rat mammary gland.
4831

MAMMILLARIA
Diurnal variation in some Krebs cycle enzymes in cactus (Nopalea dejecta) phylloclades.
4910

MANAGEMENT
NPCA conference speakers hit PCO pricing methods.
4949

MANDUCA SEXTA
Diapause in Apanteles congregatus.
4586

Physiological responses of insects to nicotine.
4623

MANGANESE
Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

MANUFACTURING COSTS
The pesticide review.
4952

MAPS
Pesticides in water, Pesticides in selected western streams--A contribution to the national program.
4870

MARKET DEVELOPMENT
How Ian Hendrif is steering Shell International into expanding pesticide markets.
4948

MARKETING COSTS
An inventory of market news reports for poultry.
4954

MASTITIS
Observations on the practical use of the rapid mastitis test.
4821

MATHEMATICAL ANALYSIS
Theory of disinfectant testing.
4941

MATING
Comparative effects of allatectomy on the activity of the male accessory glands and on the sexual behavior of two acridids: Schistocerca gregaria and Locusta migratoria (sub-species migratorioides and Razalinsk).
4470

MATRICARIA CHAMOMILLA
Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4774

MAYAMIRIS
Lopidea Uhler: New species and records from Mexico and southwestern United States with Mayamiris, related new genus from Mexico (Hemiptera, Miridae).
4530

MAZZARD CHERRIES
Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contact of roots.
4702

MEASUREMENT
Pesticides in people. Storage of DDT in the people of Israel.
4890

MEAT
The pale muscle problem in pigs.
4845

Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

MECHANORECEPTORS
Electrophysiological evidence of the tactile function of the sensillary trichia on the antenna of the Speophyes lucidulus Delarouzee (cave Coleoptera) larva.
4479

The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

MECOPROP
Finesse in weed control.
4778

MEDICAL ENTOMOLOGY
Outline of Syrian parasitology.
4790

MEGACHILE ROTUNDATA
A record of Megachile rotundata (F.) from Ashcroft. British Columbia.
4358

MEIOSIS
Chromosome numbers of some central European Cerambycidae. II.
4648

MELANOSIS
A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin.
4645

MELATONIN
Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

MELOIDOGYNE
Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.).
4766

MELOIDOGYNE JAVANICA
Nematodes attack bananas.
4768

MELOLONTHA MELOLONTHA
Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

Results of field experiments carried out in 1954 and 1955 in switzerland concerning the microbial control of the larvae of Melolontha melolontha L.
4622

MELTING OUT
Fairway disease control.
4674

MEMBRACIDAE
Six new species of Membracidae (Hemiptera: Homoptera) from South Africa.
4366

The genus Gargara Anyot Serville (Homoptera: Membracidae) in South Africa.
4368

MENINGO-ENCEPHALITIS
The focal distribution of lesions of porcine hypernatremic eosinophilic meningo-encephalitis for diagnostic purposes.
4803

MENOPONIDAE
A new subgenus and new species of Franciscoloa conci (Mallophaga: Menoponidae).
4422

MERCAPTO COMPOUNDS
Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4775

MERODON EQUESTRIS
Narcissus flies.
4748

METABOLISM
Intermediate energy metabolism of Leptospira.
4796

Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

METABOLITES
Rhizosphere root exudates and their effect on microbial activity.
4662

Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B.
4673

Pesticide residues in a marine population of double-crested cormorants.
4883

Problems in monitoring DDT and its metabolites in the environment.
4889

Structure of Klein's metabolites of aldrin and of dieldrin.
4926

METAMORPHOSIS
Teratological effects on the nymphs and adults of insects, the larvae of which have ingested sublethal doses of the thermostable toxin of Bacillus thuringiensis Berliner.
4468

The influence of weight of newly-hatched larvae on the determination of the phase characteristics of the migratory locust, Locusta migratoria migratorioides (R. and F.), gregarious phase.
4471

The influence of the corpora cardiaca on the duration of the fourth and fifth instars of Locusta migratoria L..
4473

Action of ecdysone on the larvae of Drosophila melanogaster subjected to starvation. The existence of two pre-requisites for the formation of the puparium.
4491

Inactivation of juvenile hormone like compounds in insects.
4501

Internal anatomy of the developmental stages of the twospotted spider mite.
4520

The origin and growth of the genital disc in Drosophila melanogaster Meig.
4540

The importance of heterogeneity in the sexual attraction exercised by female Acrolepia assectella Zeller.
4587

The possibilities of regulating the labial imaginal disc in Calliphora erythrocephala Meigen.
4594

The action of different temperatures on the duration of postembryonic development and the duration between molts in adults of six species of epigeous and cave Collembola, Hypogastruridae.
4609

Transdetermination in cells.
4637

METHODOLOGY
Notes on methods for the extraction of small soil arthropods by the high gradient apparatus.
4552

Rancho Grande (Venezuela). 2. Microhabitats of.
4595

Biological observations on some sandflies (Phlebotomus) of Rancho Grande (Venezuela). 3. Bionomical notes on Phlebotomus townsendi Ortiz, 1959 and P. vexillarius Fairchild Heritig, 1952.
4596

On the investigative methods of the sound characteristics of small cicadas (Homoptera-Cicadina).
4603

Form and mechanism of transmission of plant viruses. Transmission of viruses by arthropods.
4728

Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at

the International Herbicide Conference, Prague, June 21-24, 1966.
4774

Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

Study of the selectivity of herbicides for sugar-beets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

Fluorescent antibody techniques for vesicular stomatitis virus.
4799

Pest-management concepts and control of tick paralysis in British Columbia.
4849

Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

General method for the culture of helminths in anaerobic conditions.
4854

An analytical method for determining arsenic in biological material.
4900

METHOXYNAPHTHALENE-(1))-4-OXOBUTYRIC ACID, 4-(4-
Choleresis in sheep.
4830

METHYL BROMIDE
Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

METHYL DEMETON
Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

METHYL PARATHION
Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog.
4881

METHYL-4-CHLOROPHENOXY)BUTYRIC ACID, 4-(2-
Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

METHYL-4-CHLOROPHENOXYACETIC ACID, 2-
Weeds and their control.
4782

MICE
Virulence, adsorbability, and antigenicity of foot-and-mouth disease virus selected by adsorption with homogenized mouse kidney.
4802

Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Inhibition of the multiplication of foot-and-mouth virus in an adult mouse which had first been treated with the adjuvant of Freude .
4814

Quantitative studies on the neutralization reaction between African horse-sickness virus and antiserum.
4817

Salmonella abony-Salmonella typhimurium recombinant nonvirulent for the mouse.
4822

Opsonins examination in the mouse after endotoxin-induced resistance to infection.
4833

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

Therapeutic effect of SDDS (2-sulfamoyl-4,4'-diaminodiphenyl sulfone) on experimental toxoplasmosis.
4843

MICRALYMMA MARINUM
Distribution and distributional centers of North Atlantic insects.
4407

MICROBIOLOGY
The effects of soil sterilization procedures on the microbiological equilibrium of the soil.
4672

Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

MICROCLIMATE
Rancho Grande (Venezuela). 2. Microhabitats of.
4595

MICROCOCCACEAE
Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

MICRONUTRIENTS
Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

Effect of Spartin under dryland farming on Setaria italica (Beauv.).
4915

MICROORGANISMS
New observations on the transport of intranuclear microorganisms, called Phi particles, by the spermatozoids in homopterous insects.
4556

Rhizosphere root exudates and their effect on microbial activity.
4662

Cryptogama diseases of the root system. Prevention and control.
4681

The meaning and definition of biological control.
4742

Problems in monitoring DDT and its metabolites in the environment.
4889

MICROSCOPY
Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases.
4829

MIKIOLA FAGI
Regulation of growth of nurse nuclei in the development of egg follicles in Cecidomyiidae (Diptera).
4564

MILDEW
Wheat.
4691

The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

How to prevent and remove mildew; home methods.
4959

MILK
The nourishment of milk calves is essential for the future of the product.
4787

Release of sialic acid from caseins of cow and buffalo milk by cow and buffalo rennets.
4791

Observations on the practical use of the rapid mastitis test.
4821

Staphylococcal intoxication of young suckling whelps.
4840

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

MILK ANALYSIS
Bacteriostatic properties of milk from tropical countries.
4868

MILKY DISEASE
Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

MINERALS
Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

The nourishment of milk calves is essential for the future of the product.
4787

The pesticide review.
4952

MIREX
Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultrual commodities. Dodecachlorooctahydro-1,3,4-metheno-2th-cyclobuta (cd) pentalene.
4882

MIRIDAE
On Orthotylus Fieb. and Pachylops Fieb. (Heteroptera, Miridae).
4436

The genus Heterotoma Lepeletier and Serville, 1825 (Synonym Acroderrhis Bergroth, 1914) (Heteroptera, Miridae).
4437

The identity of the British Mondsynamma Scott 1864 (Hem., Miridae).
4442

Lopidea Uhler: New species and records from Mexico and southwestern United States with Mayamiris, related new genus from Mexico (Hemiptera, Miridae).
4530

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

MITES
Insect and mite control on nursery stock in Ohio.
4743

MITOCHONDRIA
The presence of particles with the appearance of nucleocapsids associated with mitochrondrites in the cells of a hamster infected with Rous virus.
4812

MITOSIS
Mitotic activity of the first embryonic stages in the potato beetle Leptinotarsa decemlineata Say (Coleoptera, Chrysomelidae).
4457

Regulation of growth of nurse nuclei in the development of egg follicles in Cecidomyiidae (Diptera).
4564

The progress of mitosis (orthomitosis) in the manner of endomitosis in the malpighian tubules of the locust (Locusta migratoria) (Insecta, Orthoptera).
4575

MOLDS
Bulk wheat pests can be controlled by simple precautions.
4866

Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

MOLECULAR WEIGHT
Structure of Klein's metabolites of aldrin and of dieldrin.
4926

MOLTING (INSECTS)
Electrical resistance of intact integument throughout the molt cycle of a cockroach.
4593

MOMPHIDAE
A revision of the Cosmopterigidae of American north of Mexico, with a definition of the Momphidae and Walshiidae (Lepidoptera: Gelechioidea).
4395

MONILIALES
The reciprocal relationships in mixed cultures of entomophagous fungi and the effect of some Hyphomycetes on their growth.
4690

MONOCHAMUS OREGONENSIS
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

MONOLINURON
Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4775

MORDELLIDAE
Coleoptera from northeast Africa. Mordellidae. Supplement: Paraconalia n. gen. a new genus from South America. 64. Contribution to the knowledge of the Mordellids.
4380

MORPHOLOGY
Predatory behaviour of a Dolichopodid and an Ephydrid (Dipt.).
4449

The infrastructural morphology of Pillotina calotermitidis nov. gen., nov. sp., a Spirochaetales of the intestine of Calotermes praecox.
4513

Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

Theory of classification of the densonucleose viruses , based on the study of molecular structures and physiochemical properties.
4823

MORTALITY
Aspects of virus multiplication and average reduplication time for a granulosis virus of Zeiraphera diniana (Guenee).
4456

Susceptibility of irradiated insects to Bacillus thuringiensis infection.
4519

Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

Costing acute Mareks disease.
4828

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

Pesticide residues in a marine population of double-crested cormorants.
4883

Some pathological effects of sub-acute and acute poisoning of rainbow trout by phenol in hard water.
4898

MORUS
Sudden death in feeder pigs.
4816

MOSAIC
The action of formamide on turnip yellow mosaic virus: Obtaining artificial capsids.
4686

The action of urea on turnip yellow mosaic virus. The properties of RNA obtained at the time of artificial capsid formation.
4701

First evidences of viral infections in plants.
4704

The viruses of the black and red currant.
4705

MOTHS
First records of eye-frequenting moths from Ceylon.
4365

MOUTH PARTS
The possibilities of regulating the labial imaginal disc in Calliphora erythrocephala Meigen.
4594

MUSCA DOMESTICA
Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

MUSCIDAE
Coenosia lineatipes Zett. (Dipt., Muscidae) preying on Typhlocyba cruenta H. S. (Hem., Cicadellidae).
4448

MUSCLES
Remarks on the structure of insect flight muscle fibrils at the striation level.
4453

The pale muscle problem in pigs.
4845

MUSHROOMS
Pesticide residues in cultivated mushrooms.
4891

MUTATION
Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

MUTATIONS
Cellular degeneration in the production of some mutant phenotypes in Drosophila melanogaster.
4634

Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

Isolation of conjugation-constitutive mutants of Colicin factor Ib.
4832

Cold-sensitive mutations in Salmonella typhimurium which affect ribosome synthesis.
4844

MYCETOMES
Cytology and cytochemistry of the mycetone of Pseudococcus maritimus (Earhorn) (Homoptera Coccidae.
4550

MYCOBACTERIUM TUBERCULOSIS
Fatty acid composition of phosphatidyl ethanolamine of Mycobacterium tuberculosis.
4939

MYCOPLASMA PNEUMONIAE
Effect of pH on the immunogenicity of Mycoplasma pneumoniae.
4834

MYCOSPHAERELLA MUSICOLA
Co-operative spraying against banana pests.
4683

MYCOTOXINS
Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

MYIASIS
The myiasis fly of the African aardvark (Orycteropus afer (Pallas)).
4852

MYOFIBRILS
Ultrastructural peculiarities of the myofibrils in the flight muscles of Lepidoptera.
4452

MYRIOPHYLLUM SPICATUM
Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

NARCISSUS
Narcissus flies.
4748

NATURAL CONTROL (INSECTS)
The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

NECROSIS
Boron in plants: A biochemical role.
4912

NEMATOCIDES
Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966.
4725

Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.).
4766

The role of nematodes in horticulture.
4767

Fumigants and specific nematocides in the control of phytophagous nematodes.
4769

NEMATODE INFESTATION
Experimental infection of laboratory animals with Ascaris suum.
4855

NEMATODE VECTORS
Form and mechanism of transmission of plant viruses. Transmission of viruses by nematodes.
4729

NEMATODES
Diazinon against plant pests.
4655

The viruses of the black and red currant.
4705

Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966.
4725

The role of nematodes in horticulture.
4767

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

Thiabendazole as a broad-spectrum anthelmintic. (abstract).
4853

Prevent worms to increase sheep profits.
4856

For a better and more profitable technique in the application of soil fumigants.
4946

NEMATOMORPHA
The infection of immature aquatic insects by larval Paragordius (Nematomorpha).
4620

NEODIPRION SERTIFER
The use of viruses in biological control.
4458

NEODIPRION SWAINEI
Trans-ovum transmission of insect viruses as a biological control.
4600

Study of the virus disease of Neodiprion swainei Midd. and results of its aerial dispersion.
4758

NEOPLASMS
The mode of formation of intracytoplasmic structures in tumors induced by viruses of the avian sarcoma leucosis group.
4824

NERVES
Concerning the extraocular light sensitivity of the Dictyoptera: Evidence of photoreceptors associated with the tegumentary nerves.
4464

Axis cylinder degeneration associated with ryegrass staggers in sheep and cattle.
4825

NERVOUS SYSTEM
Observations on the ultrastructure of the parasympathetic organs of the phasmids.
4585

Some effects of castration on the protocerebral neurosecretion of the females of Polistes (Hymenoptera, Vespidae). 4601

Single unit activity in the visual pathway of the butterfly Heliconius erato. 4605

Physiological responses of insects to nicotine. 4623

DDT: Sublethal effects on brook trout nervous system. 4892

NESTING HABITS
Comparison of the structure and architecture of some nests of Evylaeus (Hym., Halictidae) at the cell region. 4527

NEUROENDOCRINES
The influence of the corpora cardiaca on the duration of the fourth and fifth instars of Locusta migratoria L.. 4473

NEZARA VIRIDULA
The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L. 4736

NICOTINE
Physiological responses of insects to nicotine. 4623

NITRATED PHENOLS
Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards. 4780

NITROGEN
Fertilization of semi-mature stands in Newfoundland. 4652

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control. 4722

Imidazole: Fungitoxic derivatives. 4902

NOCTUIDAE
Choice of resting site by Noctuidae (Lepidoptera). 4352

Listing of Trifid noctuidae of France and Belgium. 4361

Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae). 4376

Panthea coenobita Esp. in the French Jura. (Lepidoptera Noctuidae Pantheinae). 4377

Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt. 4413

Study of the phototrophism of the Noctuidae (Lepidoptera). Research on the variation of behavior following the frequency of intermittent monochromatic illumination. 4487

NOMENCLATURE
Remarks concerning the terminology of the genitalia armor in the genus Argynnis (S.L.). (Lepidoptera, Nymphalidae). 4573

Studies on Phyllosticta blight of rice. 4703

NOTODONTIDAE
A comparative morphological study of the male external genitalia of the type-species of some South African Notodontidae (Lepidoptera). 4611

NUCLEAR MAGNETIC RESONANCE
Proton magnetic resonance spectra of some phenyl-phosphorus compounds. 4931

NUCLEOPROTEINS
Polysome formation with tobacco mosaic virus RNA. 4708

NUCLEOTIDES
The biochemistry of Vibrio cholerae: Part IV. Acid soluble nucleotide constituents. 4927

NURSERIES
Insect and mite control on nursery stock in Ohio. 4743

NYMPHALIDAE
Remarks concerning the terminology of the genitalia armor in the genus Argynnis (S.L.). (Lepidoptera, Nymphalidae). 4573

Single unit activity in the visual pathway of the butterfly Heliconius erato. 4605

NYMPHS
New data on accumulation of S35 and Ru106 by dragonfly nymphs (Odonata). 4497

The nymphal instars of four lace bugs from Czechoslovakia. (Heteroptera, Tingidae). 4604

OATS
Studies on Phyllosticta blight of rice. 4703

OCHRATOXIN
Screening method for zearalenone, aflatoxin, and ochratoxin. 4928

ODONATA
New data on accumulation of S35 and Ru106 by dragonfly nymphs (Odonata). 4497

ODONTOTERMES OBESUS
Termite control in rubber plantations. 4521

OEDEMERIDAE
A contribution to the knowledge of the Cerambycidae and the Oedemeridae of Iran. 4394

OILS
Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller). 4553

Problems with scald inhibitors. 4863

OLETHREUTIDAE
A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta. 4745

OLFACTORY RESPONSES
Honey bee recruitment to food sources: Olfaction or language. 4619

ONCOGENIC VIRUSES
Research on the oncogenic constituents of three zones of hemagglutinating activity, obtained by centrifugation of polyoma virus purified in density gradients with cesium chloride. 4806

ONCOPELTUS FASCIATUS
A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin. 4645

OODERA HOGGARENSIS
New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar. 4391

OOGENESIS
The mode of action of the corpora allata in the course of yolk formation in Tenebrio molitor (Coleoptera). 4542

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). Growth and yolk formation. 4546

Regulation of growth of nurse nuclei in the development of egg follicles in Cecidomyiidae (Diptera). 4564

The presence of positive paraldehyde fuchsin granules in the pedicle of the ovary of Pyrilla perpusilla Walker (Insecta Homoptera Fulgoroidea). 4588

The influence of the genotype on the frequency of radiationinduced aneuploidy in the oogenesis of Drosophila melanogaster. V. A tentative explanation of the differences in the dose-response curves. 4635

Tritium labelling and cytochemistry of extra DNA in Acheta. 4642

OOTHECAE
Recent data on the origin of larval polymorphism at hatching in the migratory grasshopper, Schistocerca gregaria Forskal. 4578

OPIUS
Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae). 4385

OPSIUS STACTOGALUS
Opsius stactogalus Fieb. (Hem., Cicadellidae) in S. E. London. 4354

OPSONINS
Opsonins examination in the mouse after endotoxin-induced resistance to infection. 4833

ORCHARDS
Disease control in nonbearing orchards. 4699

Blackberry control near orchards and vegetable gardens. 4770

ORCHIDACEAE
Mosquito pollination of Habenaria obtusata (Orchidaceae). 4675

ORGANIC COMPOUNDS
Diazinon against plant pests. 4655

Black stem- the second stem disease of grains. 4734

ORGANOPHOSPHATES
Specificity in insecticides. 4507

ORGANOPHOSPHORUS COMPOUNDS
Specificity in insecticides. 4507

Watch for the cereal leaf beetle. 4557

Results of a study on controlling Tipula oleracea L. showing a marked resistance to some chlororganic insecticides. 4750

Persistence and movement of parathion in irrigation waters. 4871

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas. 4876

The determination of the amount of diazinon residues in foodstuff by means of labeled diazinon. (Summary). 4877

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog. 4881

Pesticide residues in cultivated mushrooms. 4891

Some observations concerning the maximum dosage ordinance. 4897

Proton magnetic resonance spectra of some phenyl-phosphorus compounds. 4931

ORGANOPHOSPHORUS INSECTICIDES
Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera). 4757

ORNAMENTAL PLANTS
Some pests of ornamental plants in Madras.
4735

ORTHOPTERA
New European Orthoptera.
4390

Concerning the extraocular light sensitivity of the Dictyoptera: Evidence of photoreceptors associated with the tegumentary nerves.
4464

Patterns and pathways of chromosome evolution within the Orthoptera.
4640

ORYZAEPHILUS SURINAMENSIS
Response of some stored-product insects to Trogoderma granarium pheromones.
4625

OTOBIUS MEGNINI
The first discovery of free-living larvae of the ear tick, Otobius megnini (Duges), in British Columbia.
4424

OULEMA MELANOPUS
Watch for the cereal leaf beetle.
4557

OVARIES
Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). The importance of the composition of the medium for survival, growth, and yolk formation.
4541

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). Growth and yolk formation.
4546

The importance of heterogeneity in the sexual attraction exercised by female Acrolepia assectella Zeller.
4587

The presence of positive paraldehyde fuchsin granules in the pedicle of the ovary of Pyrilla perpusilla Walker (Insecta Homoptera Fulgoroidea).
4588

Some effects of castration on the protocerebral neurosecretion of the females of Polistes (Hymenoptera, Vespidae).
4601

OVIPOSITION
The egg-laying cycle in the Machiloidea (Insecta Thysanura).
4459

Inhibition of the oviposition behavior of the migrator locust (Locusta migratoria L.) caused by the salinity of the soil.
4543

O
The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

OXIDATION
Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

OXIDES
Proton magnetic resonance spectra of some phenyl-phosphorus compounds.
4931

OYSTERS
Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

PAECILOMYCES
The reciprocal relationships in mixed cultures of entomophagous fungi and the effect of some Hyphomycetes on their growth.
4690

PANICUM MAXIMUM
Studies on Phyllosticta blight of rice.
4703

PANTOTHENATE
The effects of pantothenic acid, pantoyltaurine, salicylate and related compounds on the in vitro and in vivo growth of Trypanosoma lewisi.
4839

PAPAYAS
The status of papaya breeding in La Molina, Peru.
4653

Papaya breeding in Hawaii.
4668

Basis for a program of papaya, Carica papaya L., improvment in Colombia.
4676

Inter-species and inter-genera crosses in Caricaceas and their phytotechnical implications.
4696

Inoculation of Carica papaya L. with the ringspot distortion virus under various conditions.
4733

The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

PAPOVAVIRUSES
Theory of classification of the densonucleose viruses , based on the study of molecular structures and physiochemical properties.
4823

PARACONALIA
Coleoptera from northeast Africa. Mordellidae. Supplement: Paraconalia n. gen. a new genus from South America. 64. Contribution to the knowledge of the Mordellids.
4380

PARAINFLUENZA-1 VIRUS
Persistance of the genome of the Rous virus in hamster cells changed in vitro, and the action of inactivated Sendai virus on its transmission to chick cells.
4848

PARAMETERS
A criterion of transformation for age-weight data on insect larval growth.
4481

PARAQUAT
The dipyridillics in tomato cultures.
4914

Part II proposed for paraquat.
4962

PARASITES
Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

Outline of Syrian parasitology.
4790

PARASITIC INSECTS
Aphidius smithi Sharma and Subba Rao (Hymenoptera: Aphidiidae) a parasite of the pea aphid new in Southern Ontario.
4350

Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae).
4385

The first discovery of free-living larvae of the ear tick, Otobius megnini (Duges), in British Columbia.
4424

Identification of the braconid parasites of rice borers (Hymenoptera: Braconidae).
4440

New species of the genus Trachina Mg. (diptera, Tachnidae), parasites of injurious Lepidoptera in the Ussr.
4445

The introduction, release, and recovery of parasites of the alfalfa weevil in Eastern United States.
4466

Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

Contribution to the biological study of the Diptera Sarcophagidae, parasites of acridids. The biological cycle of Blaesoxipha rossica Vill., injection of larvae in the body of the host by the female Sarcophagidae.
4547

Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae).
4615

A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

PARASITIC MITES
Ectoparasitic mites (Acarina: Parasitiformes) from small mammals from the Tarnasjo and Ammarnas areas in Swedish Lapland.
4353

PARASITIC NEMATODES
Larval development of a nematode parasite of the dog circulatory system in dulcaquicoles mollusks.
4857

PARASITISM
Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

Diapause in Apanteles congregatus.
4586

Diazinon against plant pests.
4655

The problem of the potato blackleg disease.
4697

Contribution to the study of a parasitic complex which attaches itself to the exposed parts of cotton plants and causes their withering.
4712

The role of nematodes in horticulture.
4767

Axis cylinder degeneration associated with ryegrass staggers in sheep and cattle.
4825

Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases.
4829

Thiabendazole as a broad-spectrum anthelmintic. (abstract).
4853

Prevent worms to increase sheep profits.
4856

Host-parasite relationship. 1. Studies on the productivity of sheep as affected by Haemonchosis.
4858

Obligatory and additional hosts of helminths.
4859

Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

Nymphal stage of Linguatula serrata found in mesenteric lymph node of a bovine.
4861

PARASITOLOGY
Outline of Syrian parasitology.
4790

PARATHION
Persistence and movement of parathion in irrigation waters.
4871

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog.
4881

Pesticide residues in cultivated mushrooms.
4891

A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure.
4937

PARTHENOGENESIS
On parthenogenic reproduction in Arammichnus cribricollis Gyll (Insecta Coleoptera Curculionidae).
4463

Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO2 gas.
4647

PASTEURELLA PSEUDOTUBERCULOSIS
Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases.
4829

PATHOLOGY
The physio-pathology of chicken caecal coccidiosis: Experimental study of immunogenesis, action of specific antilymphocytic sera.
4809

PEACHES
Disease control in nonbearing orchards.
4699

Pruning produces perfect, pest-free peaches.
4762

PEARS
Diagnoses of pear decline and rootstock identification in young pear orchards.
4687

Disease control in nonbearing orchards.
4699

PEAT
A new culture method for Rhynchosciara.
4563

PECTINASE
Isolation and a study of the mode of action of a polygalacturonase in insects (Pyrrhocoris apterus).
4482

PECTINOPHORA GOSSYPIELLA
Circadian clock action spectrum in a photoperiodic moth.
4465

Attack on moco cotton by pink bollworm in Ceara.
4756

PENTACHLOROPHENOL
Preservative treatments and service life of fence posts in Puerto Rico.
4658

Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

PENTALONIA NIGRONERVOSA
Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

PENTATOMIDAE
The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France.
4544

PENTOSES
Boron in plants: A biochemical role.
4912

PERILLUS BIOCULATUS
The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France.
4544

PERIPLANETA AMERICANA
The existence of inclusions which have a lamella ultrastructure in the nucleus of certain bacteriocytes in the adipose tissue of Periplaneta americana (Insecta, Blattidae).
4498

Electrical resistance of intact integument throughout the molt cycle of a cockroach.
4593

PERKINSIELLA SACCHARICIDA
Polymorphism in males of the sugarcane leafhopper, Perkinsiella saccharicida.
4576

PERMEABILITY
Physiological responses of insects to nicotine.
4623

PEROXIDASES
Study of the selectivity of herbicides for sugarbeets, using laboratory. greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

PEST CONTROL
Termite control in rubber plantations.
4521

Preservative treatments and service life of fence posts in Puerto Rico.
4658

Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966.
4725

Pest-management concepts and control of tick paralysis in British Columbia.
4849

Bulk wheat pests can be controlled by simple precautions.
4866

A synopsis of the pesticide problem.
4899

Some problems of method and content in working-up a forecast -demonstrated on the example of the plant protection- and pesticide manufacturing industry.
4957

PEST CONTROL OPERATORS
NPCA conference speakers hit PCO pricing methods.
4949

1969-Pest Control's economic forecast.
4951

Our struggle against pests.
4960

PESTICIDE APPLICATION
DPA for scald control.
4715

Spider mites on cotton; how to control them.
4737

Drench your trees against San Jose scale.
4738

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

A synopsis of the pesticide problem.
4899

For a better and more profitable technique in the application of soil fumigants.
4946

The practical use of aerial application.
4958

PESTICIDE RESIDUES
Pesticides in water, Pesticides in selected western streams--A contribution to the national program.
4870

Persistence and movement of parathion in irrigation waters.
4871

Our struggle against pests. II.
4872

Here we go again... Pesticides under fire from new consumer group.
4873

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Notice of filing of petition regarding pesticide chemical.
4879

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog.
4881

Pesticide residues in a marine population of double-crested cormorants.
4883

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

A look at the plant pest control divison.
4887

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticide residues in cultivated mushrooms.
4891

Efficiency parameters of gas chromatography columns used in pesticide residue analysis.
4923

Variation of Florisil activity: Simple method for measuring adsorbent capacity and its use in standardizing Florisil columns.
4934

A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure.
4937

Extraction and cleanup procedure for the gas chromatographic determination of four dinitrophenolic pecticides.
4942

We can solve international residue problem if...
4956

PESTICIDES
Needed: A miracle method for soil borne disease control.
4695

Insect and mite control on nursery stock in Ohio.
4743

Pesticides in water, Pesticides in selected western streams--A contribution to the national program.
4870

Persistence and movement of parathion in irrigation waters.
4871

Our struggle against pests. II.
4872

Here we go again... Pesticides under fire from new consumer group.
4873

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultrual commodities. Dodecachlorooctahydro-1,3,4-metheno-2th-cyclobuta (cd) pentalene.
4882

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticides in people. Storage of DDT in the people of Israel.
4890

DDT: Sublethal effects on brook trout nervous system.
4892

A synopsis of the pesticide problem.
4899

Structure of Klein's metabolites of aldrin and of dieldrin.
4926

Pesticide handbook - entoma - 1968.
4929

How Ian Hendrif is steering Shell International into expanding pesticide markets.
4948

The pesticide review.
4952

Our struggle against pests.
4960

Part II proposed for paraquat.
4962

The law and the use of pesticides.
4964

PHALARIS
Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae).
4376

PHANEROTOMA TOREUTAE
A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

PHASMATODEA
Observations on the ultrastructure of the parasympathetic organs of the phasmids.
4585

PHENOLASES
The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

PHENOLS
On the role of the phenol constituents in the course of infection of the cacaopods of Theobroma cacao L. by Phytophthora palmivora Butl..
4709

Some pathological effects of sub-acute and acute poisoning of rainbow trout by phenol in hard water.
4898

Boron in plants: A biochemical role.
4912

Effects of chemical preservatives and storage on constituents used to characterize lemon juice.
4940

PHENOXY ACID COMPOUNDS
Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

Finesse in weed control.
4778

Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

Weeds and their control.
4782

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

PHEROMONES
Specificity in insecticides.
4507

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

PHILAENUS SPUMARIUS
The accumulation of ferritin in the nuclei and cytoplasm of certain mesenteron cells in old Homoptera Cercopidae.
4500

PHLAEOTHRIPIDAE
New records of South African Thysanoptera with description of a new Phlaeothripid genus.
4446

PHLEBOTOMUS
Rancho Grande (Venezuela). 2. Microhabitats of.
4595

Biological observations on some sandflies (Phlebotomus) of Rancho Grande (Venezuela). 3. Bionomical notes on Phlebotomus townsendi Ortiz, 1959 and P. vexillarius Fairchild Heritig, 1952.
4596

PHLOEM
Diagnoses of pear decline and rootstock identification in young pear orchards.
4687

PHLYCTAENA GOSSYPII
Contribution to the study of a parasitic complex which attaches itself to the exposed parts of cotton plants and causes their withering.
4712

PHOMA
Contribution to the study of a parasitic complex which attaches itself to the exposed parts of cotton plants and causes their withering.
4712

PHORMIA REGINA
Dietary choline requirements, phospholipids and development in Phormia regina.
4511

PHOSPHATASES
Esterase and phosphatase polymorphism in natural population of wild silkworm, Theophila mandarina L.
4626

PHOSPHATES
Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

PHOSPHATIDYLETHANOLAMINE
Fatty acid composition of phosphatidyl ethanolamine of Mycobacterium tuberculosis.
4939

PHOSPHINE
Proton magnetic resonance spectra of some phenyl-phosphorus compounds.
4931

PHOSPHOADENOSINE-5'-PHOSPHOSULPHATE, 3'
Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

PHOSPHOLIPIDS
Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

Dietary choline requirements, phospholipids and development in Phormia regina.
4511

PHOSPHORUS
The determination of the amount of diazinon residues in foodstuff by means of labeled diazinon. (Summary).
4877

Imidazole: Fungitoxic derivatives.
4902

PHOSPHORUS ISOTOPES
Proton magnetic resonance spectra of some phenyl-phosphorus compounds.
4931

PHOTOGRAPHY
The identity of Sitophilus oryzae.
4462

PHOTOPERIODISM
Circadian clock action spectrum in a photoperiodic moth.
4465

The cumulative effects of long photoperiods and the determination of the phase characteristics of the migratory grasshopper, Locusta migratoria migratorioides (R. and F.), gregarious phase.
4472

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Diapause in Apanteles congregatus.
4586

The influence of external factors on the anticipated elimination of the diapause of Psylla pyri (Homoptera: Psyllidae).
4608

PHOTOSYNTHESIS
Boron in plants: A biochemical role.
4912

PHOTOTROPISM
Concerning the extraocular light sensitivity of the Dictyoptera: Evidence of photoreceptors associated with the tegumentary nerves.
4464

Study of the phototrophism of the Noctuidae (Lepidoptera). Research on the variation of behavior following the frequency of intermittent monochromatic illumination.
4487

PHYLLOSTICTA
Studies on Phyllosticta blight of rice.
4703

PHYSIOLOGY
Association of increased recipient ability for R factors and reduced virulence among variants of Salmonella choleraesuis var. kunzendorf.
4819

Competitive development of enzymatic activity of transcriptase and replicase in the course of a viral disease in cattle.
4837

PHYTOMETRA
Some pests of ornamental plants in Madras.
4735

PHYTOPATHOLOGY
The law of host-parasite balance in the process of pathogenesis and its implications in ecology.
4714

PHYTOPHTHORA
Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

PHYTOPHTHORA PALMIVORA
The resistance of Fx and IAN rubber clones to leaf diseases in Brazil.
4693

On the role of the phenol constituents in the course of infection of the cacaopods of Theobroma cacao L. by Phytophthora palmivora Butl..
4709

PHYTOPHTHORA PARASITICA
Zoospore in Phytophthora parasitica var. subdariffae.
4666

PHYTOTOXICITY
Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

PICEA ENGELMANNI
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

PICEA GLAUCA
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

PIERIDAE
Some biometrics in Pieris and Colias (Lepidoptera: Pieridae) in Quebec and Nova Scotia.
4502

PIERIS BRASSICAE
Teratological effects on the nymphs and adults of insects, the larvae of which have ingested sublethal doses of the thermostable toxin of Bacillus thuringiensis Berliner.
4468

Evidence, by cellulose acetate electrophoresis, of a vitellogenetic protein in the hemolymph of the female imago of the cabbage pierid (Pieris brassicae L.).
4538

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

Practical application of Bacillus thuringiensis.
4612

PIERIS RAPAE
Some biometrics in Pieris and Colias (Lepidoptera: Pieridae) in Quebec and Nova Scotia.
4502

PIGEONPEAS
Bionomics of tur plume moth (Marasmarcha liophanes, Meyrick) on pigeon pea (Cajanns cajan, Milisp).
4477

PINUS
The adaptability of Blastophagus piniperda L. (Col. Scolytidae) to various Pinus and the preferences of this insect in regard to these forest species.
4476

The important forest pests of Spain.
4660

Comandra blister rust of hard pines.
4711

PINUS BANKSIANA
A study of Phancrotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

Study of the virus disease of Neodiprion swainei Midd. and results of its aerial dispersion.
4758

PINUS CONTORTA
A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

PINUS ECHINATA
A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspcyresia toreuta.
4745

PINUS PONDEROSA
Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

PINUS RESINOSA
A study of Phanerotoma toreutae, a parasitc of the pine cone moth Laspeyresia toreuta.
4745

PINUS TAEDA
A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

PINUS VIRGINIANA
A study of Phanerotoma toreutae, a parasite of the pine cone moth Laspeyresia toreuta.
4745

PIPER NIGRUM
Biology of Gynaikothrips karnyi Bagnall, the marginal gall forming thrips of pepper.
4616

PISSODES APPROXIMATUS
Sound production in the white-pine weevil, Pissodes strobi, and the northern pine weevil, P. approximatus.
4506

PISSODES STROBI
Sound production in the white-pine weevil, Pissodes strobi, and the northern pine weevil, P. approximatus.
4506

PISUM SATIVUM
The influence of illumination on the development of tumors caused by Agrobacterium tumefaciens (Smith and Town) Conn. on pea seedlings, Pisum sativum L..
4707

PLANIPENNIA
The cryptonephridism of the larvae of Planipennia and their variations in function with the ecology of the Insecta.
4494

PLANT ANATOMY
The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
4685

PLANT BIOCHEMISTRY
The action of formamide on turnip yellow mosaic virus: Obtaining artificial capsids.
4686

The action of urea on turnip yellow mosaic virus. Thc properties of RNA obtained at the time of artificial capsid formation.
4701

Studies on the application of clectrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. 1. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

Some observations on ecological, physiological and biochemical aspects of weed control.
4776

Growth retardant tests on potted poinsettias.
4905

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

Diurnal variation in some Krebs cycle enzymes in cactus (Nopalea dejecta) phylloclades.
4910

Boron in plants: A biochemical role.
4912

The determination of the embryo viability of weed seeds by the TTC method.
4917

PLANT BREEDING
The status of papaya breeding in La Molina, Peru.
4653

Breeding work for the creation of glandless cotton varieties in chad.
4654

Research possibilities and the improvement of the carnation cultivated as a cut flower.
4656

Papaya breeding in Hawaii.
4668

Basis for a program of papaya, Carica papaya L., improvment in Colombia.
4676

Inter-species and inter-genera crosses in Caricaceas and their phytotechnical implications.
4696

Inoculation of Carica papaya L. with the ringspot distortion virus under various conditions.
4733

Resistance of Lycopersicon species to the carmine spider mite.
4760

PLANT CONTAMINATION
Bacterial blight elmiminated from California gins.
4724

PLANT CUTTINGS
Efficiency of some fungicides in the disinfection of the carnation roots.
4692

The dipyridillics in tomato cultures.
4914

PLANT CYTOLOGY
Respective roles of the pathogen and gall mites in the morphogenesis and histo-cytological development of two Chermesidae galls. Placed in evidence by the achievement of two similarly mixed galls.
4753

PLANT DISEASE CONTROL
Research possibilities and the improvement of thc carnation cultivated as a cut flower.
4656

Fairway disease control.
4674

Wheat.
4691

Fungus diseases of bermudagrass and overseeded coolseason grasses on golf greens.
4730

PLANT DISEASE RESISTANCE
Breeding work for the creation of glandless cotton varieties in chad.
4654

Wheat.
4691

The resistance of Fx and IAN rubber clones to leaf diseases in Brazil.
4693

Inter-species and inter-genera crosses in Caricaceas and their phytotechnical implications.
4696

Disease control in nonbearing orchards.
4699

Studies on Phyllosticta blight of rice.
4703

First evidences of viral infections in plants.
4704

On the role of the phenol constituents in the coursc of infection of the cacaopods of Theobroma cacao L. by Phytophthora palmivora Butl..
4709

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

Inoculation of Carica papaya L. with the ringspot distortion virus under various conditions.
4733

A new gene from Rubus occidentalis L. for resistance to strains 1, 2 and 3 of the rubus aphid, Amphorophora rubi Kalt.
4746

PLANT DISEASE TRANSMISSION
Form and mechanism of transmission of plant viruses. Transmission of viruscs by seeds, pollen and contact of roots.
4702

The viruses of thc black and red currant.
4705

Annual variation in persistence and transmission of Hypomyces haematococcus (Berk. and Br.) Wr.
4706

Form and mechanism of transmission of plant viruses. Transmission of viruses by arthropods.
4728

Form and mechanism of transmission of plant viruses. Transmission of viruses by nematodes.
4729

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

PLANT DISEASES
Cultivation of the sapogenin-bearing Dioscorea species.
4664

Papaya breeding in Hawaii.
4668

Fairway disease control.
4674

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

Pessimism over crop diseases.
4679

The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
4685

Needed: A miracle method for soil bornc disease control.
4695

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966.
4725

Chemical control of some important cereal plant diseases in India.
4727

The role of nematodes in horticulture.
4767

Our struggle against pests. II.
4872

PLANT ECOLOGY
The law of host-parasite balance in the process of pathogenesis and its implications in ecology.
4714

PLANT EXTRACTS
A semi-synthetic diet for Eri-silkworm raising.
4492

Inoculation of Carica papaya L. with the ringspot distortion virus under various conditions.
4733

PLANT GALLS
Respective roles of the pathogen and gall mites in the morphogenesis and histo-cytological development of two Chermesidae galls. Placed in evidence by the achievement of two similarly mixed galls.
4753

PLANT GENETICS
Breeding work for the creation of glandless cotton varieties in chad.
4654

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

PLANT GEOGRAPHY
Preliminary observations on the choice of host plants by adults of the citrus psylla, Trioza erypreae (Del Guercio) (Homoptera: Psyllidae).
4749

PLANT GROWTH INHIBITORS
Gibberellin delays ripening of tomatoes.
4906

Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.).
4920

PLANT GROWTH REGULATOR
Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B.
4673

PLANT HARDINESS
Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

Cultivation of the sapogenin-bearing Dioscorea species.
4664

Rust infection protects beans against heat injury.
4732

PLANT HISTOLOGY
Respective roles of the pathogen and gall mites in the morphogenesis and histo-cytological development of two Chermesidae galls. Placed in evidence by the achievement of two similarly mixed galls.
4753

PLANT HORMONES
Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings.
4903

Gibberellins as plant hormones.
4904

PLANT HOSTS
Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae).
4376

Host range of Xanthomonas oryzae in the Philippines.
4689

Black stem- the second stem disease of grains.
4734

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

PLANT INJURIES
Plant protection in agriculture.
4670

The problem of the potato blackleg disease.
4697

Rust infection protects beans against heat injury.
4732

Spider mites on cotton; how to control them.
4737

Resistance of Lycopersicon species to the carmine spider mite.
4760

Sex lure hoax may prove male beet wireworm's undoing.
4765

Blackberry control near orchards and vegetable gardens.
4770

PLANT METABOLISM
The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

Boron in plants: A biochemical role.
4912

PLANT MORPHOLOGY
Morphology and mode of germination of conidia of Helminthosporium oryzae in relation to its taxonomy.
4657

Mosquito pollination of Habenaria obtusata (Orchidaceae).
4675

Studies on Phyllosticta blight of rice.
4703

Respective roles of the pathogen and gall mites in the morphogenesis and histo-cytological development of two Chermesidae galls. Placed in evidence by the achievement of two similarly mixed galls.
4753

Diurnal variation in some Krebs cycle enzymes in cactus (Nopalea dejecta) phylloclades.
4910

PLANT NEMATODE RESISTANCE
The role of nematodes in horticulture.
4767

PLANT NEMATODES
The status of papaya breeding in La Molina, Peru.
4653

Plant protection in agriculture.
4670

Narcissus flies.
4748

Domestic quarantine notices. Soybean cyst nematode. Quarantine and regulations.
4764

Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.).
4766

Nematodes attack bananas.
4768

Fumigants and specific nematocides in the control of phytophagous nematodes.
4769

PLANT NUTRITION
Rhizosphere root exudates and their effect on microbial activity.
4662

Possibilities of limiting tillage measures in potato cultures when using herbicides. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4773

Trials with carbon dioxide, light and growth substances on forest tree plants.
4909

Boron in plants: A biochemical role.
4912

PLANT PEST CONTROL
Spider mites on cotton; how to control them.
4737

The meaning and definition of biological control.
4742

A look at the plant pest control divison.
4887

PLANT PEST RESISTANCE
The boll weevil; How to control it. Part II.
4348

Breeding work for the creation of glandless cotton varieties in chad.
4654

The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

Several measures used to combat fruit plant viruses.
4731

Hard-to-kill pests of fruit trees--woolly apple-aphid.
4747

Resistance of Lycopersicon species to the carmine spider mite.
4760

Pruning produces perfect, pest-free peaches.
4762

PLANT PESTS
Plant protection in agriculture.
4670

Attack on moco cotton by pink bollworm in Ceara.
4756

PLANT PHYSIOLOGICAL DISEASES
DPA for scald control.
4715

PLANT PHYSIOLOGY
Research possibilities and the improvement of the carnation cultivated as a cut flower.
4656

Rhizosphere root exudates and their effect on microbial activity.
4662

Cultivation of the sapogenin-bearing Dioscorea species.
4664

Zoospore in Phytophthora parasitica var. subdariffae.
4666

Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B.
4673

The use of growth promoters to increase potato yields.
4677

Physiological studies on incitants of guava wilt Fusarium solani (Mart.) App. and Wr. emend Snyder and Hansen and Macrophomina phaseoli (Maubl.) Ashby.
4688

The reciprocal relationships in mixed cultures of entomophagous fungi and the effect of some Hyphomycetes on their growth.
4690

Black spot of apple.
4700

Studies on Phyllosticta blight of rice.
4703

The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

Some observations on ecological, physiological and biochemical aspects of weed control.
4776

Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

Notice of filing of petition regarding pesticide chemical.
4879

Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings.
4903

Growth retardant tests on potted poinsettias.
4905

Gibberellin delays ripening of tomatoes. 4906

The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings. 4908

Trials with carbon dioxide, light and growth substances on forest tree plants. 4909

Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate. 4911

The dipyridillics in tomato cultures. 4914

Germination of Russian thistle seeds. 4916

Effect of foliar sprays of plant regulators (IAA and GA) on the growth and yield of Knol Khol (Brassica oleracea Linn. var. gongylodes). 4918

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L). 4919

Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.). 4920

PLANT PROTECTION
Plant protection in agriculture. 4670

Co-operative spraying against banana pests. 4683

The problem of the potato blackleg disease. 4697

1967 field trials on control of coffee berry disease in Kenya. I.-V. 4698

Sugar beet crop protected through aerial application. 4721

Chemical control of some important cereal plant diseases in India. 4727

Rust infection protects beans against heat injury. 4732

Control of date palm leafhoppers in Iraq by aerial spraying. 4739

Narcissus flies. 4748

Sex lure hoax may prove male beet wireworm's undoing. 4765

Nematodes attack bananas. 4768

Problems with scald inhibitors. 4863

Our struggle against pests. II. 4872

Trials with carbon dioxide, light and growth substances on forest tree plants. 4909

Some problems of method and content in working-up a forecast -demonstrated on the example of the plant protection- and pesticide manufacturing industry. 4957

The law and the use of pesticides. 4964

PLANT PROTECTIVE DEVICES
Spider mites on cotton; how to control them. 4737

PLANT PROTEINS
Wheat. 4691

PLANT QUARANTINE
Domestic quarantine notices. Soybean cyst nematode. Quarantine and regulations. 4764

PLANT REGULATORS
The use of growth promoters to increase potato yields. 4677

Growth retardant tests on potted poinsettias. 4905

Gibberellin delays ripening of tomatoes. 4906

The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings. 4908

Effect of foliar sprays of plant regulators (IAA and GA) on the growth and yield of Knol Khol (Brassica oleracea Linn. var. gongylodes). 4918

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L). 4919

Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.). 4920

PLANT RESPIRATION
Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966. 4785

PLANT TAXONOMY
Morphology and mode of germination of conidia of Helminthosporium oryzae in relation to its taxonomy. 4657

Studies on Phyllosticta blight of rice. 4703

PLANT TRANSLOCATION
Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings. 4903

PLANT WATER RELATIONS
Irrigation by spraying. 4659

PLANTATIONS
Termite control in rubber plantations. 4521

Notes on insect and gastropode damage to enclosed cotton plantations. 4671

PLANTING
Cultivation of the sapogenin-bearing Dioscorea species. 4664

Plant and profit in '68. 4963

PLANTS
Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae). 4385

The machinery generally used for efficient sterilization and disinfestation of the soil. 4945

PLASMA MEMBRANE
The particle lining of the plasmic membrane in connection with excretion in a specialized region of the middle intestine of higher termites. 4574

Oxidative enzymes in Escherichia coli plasma membrane. 4792

PLASTICS
Trials with carbon dioxide, light and growth substances on forest tree plants. 4909

PLASTIDS
The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings. 4685

PLECOPTERA
The Plecoptera of a headwater stream (Gaitscale Gill, English Lake District). 4569

PLODIA INTERPUNCTELLA
Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths. 4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis. 4867

PLUMS
Disease control in nonbearing orchards. 4699

PLUSIA PARILIS
Distribution and distributional centers of North Atlantic insects. 4407

PNEUMONIA
Respiratory disease in the pig. II. 4798

Staphylococcal intoxication of young suckling whelps. 4840

PNIGALIO MEDITERRANEUS
Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae). 4615

POA ANNUA
Finesse in weed control. 4778

PODAGRICA
Breeding work for the creation of glandless cotton varieties in chad. 4654

POISONING
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves. 4454

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze. 4560

Search for new insecticides. 4893

Some pathological effects of sub-acute and acute poisoning of rainbow trout by phenol in hard water. 4898

POISONS
Part II proposed for paraquat. 4962

POLARIZATION
Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings. 4903

POLISTES
Some effects of castration on the protocerebral neurosecretion of the females of Polistes (Hymenoptera, Vespidae). 4601

POLLEN
Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contact of roots. 4702

POLLEN TUBE
Studies on the effect of growth regulators on pollen germination and tube growth in shoe flower (Hibiscus Rosasinensis L.). 4920

POLLINATION
A record of Megachile rotundata (F.) from Ashcroft. British Columbia. 4358

Mosquito pollination of Habenaria obtusata (Orchidaceae). 4675

POLYGUANYLIC ACID
Polyguanylic acid and its effect on amino acid incorporation. 4925

POLYHEDROSES
The use of viruses in biological control. 4458

The problem of viral latency in insect tissue cultures.
4484

A preliminary study on the polyhedrosis virus of jute semilooper, Anomis sabulifera Guen.
4516

Electron microscope study of the virus of the granulosis of the fall webworm (Hyphantria cunea Drury).
4613

Study of the virus disease of Neodiprion swainei Midd. and results of its aerial dispersion.
4758

POLYMORPHISM
Polymorphism in males of the sugarcane leafhopper, Perkinsiella saccharicida.
4576

Recent data on the origin of larval polymorphism at hatching in the migratory grasshopper, Schistocerca gregaria Forskal.
4578

Esterase and phosphatase polymorphism in natural population of wild silkworm, Theophila mandarina L.
4626

Parallel polymorphism for supernumerary segments in Chorthippus parallelus (Zetterstedt). I. British populations.
4638

Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

POLYOMA VIRUS
Research on the oncogenic constituents of three zones of hemagglutinating activity, obtained by centrifugation of polyoma virus purified in density gradients with cesium chloride.
4806

POLYPLOIDY
The influence of the genotype on the frequency of radiationinduced aneuploidy in the oogenesis of Drosophila melanogaster. V. A tentative explanation of the differences in the dose-response curves.
4635

Experimental induction of androgenesis, gynogenesis, and polyploidy in Bombyx mori by treatment with CO2 gas.
4647

POPULATION
Are woodpeckers the answer to pine bark beetle attacks .
4450

A criterion of transformation for age-weight data on insect larval growth.
4481

Esterase and phosphatase polymorphism in natural population of wild silkworm, Theophila mandarina L.
4626

Parallel polymorphism for supernumerary segments in Chorthippus parallelus (Zetterstedt). I. British populations.
4638

Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

The effects of soil sterilization procedures on the microbiological equilibrium of the soil.
4672

Cryptogama diseases of the root system. Prevention and control.
4681

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

Biological control of snails exerted by Euglandina rosea (Ferussac) in Bermuda.
4786

POPULATION STATISTICS
Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

POPULUS
The important forest pests of Spain.
4660

PORPHYRINS
Problems in monitoring DDT and its metabolites in the environment.
4889

POTASH
Role of potash application in reducing black rust of wheat.
4680

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

POTASSIUM
Role of potash application in reducing black rust of wheat.
4680

POTASSIUM SORBATE
Effects of chemical preservatives and storage on constituents used to characterize lemon juice.
4940

POTATOES
The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France.
4544

The use of growth promoters to increase potato yields.
4677

New fungicide for potato blight.
4684

The problem of the potato blackleg disease.
4697

Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

Sex lure hoax may prove male beet wireworm's undoing.
4765

Test results with patoran.
4772

Possibilities of limiting tillage measures in potato cultures when using herbicides. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4773

Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4774

Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4775

Weed control in potato cultures without adverse effects on the potato quality.
4781

POULTRY
Thermoresistant Clostridium perfringens of the A type in poultry.
4807

An inventory of market news reports for poultry.
4954

POULTRY DISEASES
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

Thermoresistant Clostridium perfringens of the A type in poultry.
4807

Studies on the treatment and prophylaxis of Salmonella pullorum infection in chicks with chloromycetin.
4820

POWDERY MILDEW
Disease control in nonbearing orchards.
4699

PRECIPITIN TEST
Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

PREDACEOUS INSECTS
Coenosia lineatipes Zett. (Dipt., Muscidae) preying on Typhlocyba cruenta H. S. (Hem., Cicadellidae).
4448

Predatory behaviour of a Dolichopodid and an Ephydrid (Dipt.).
4449

Fauna of the predator bugs (Hemiptera-Heteroptera) occurring on apple trees in the district of Poznan.
4532

Investigations of fauna overwintering in or under the bark of apple trees. Part II. Studies on Arachnida.
4534

The use of a Heteroptera, Pentatomidae perillus bioculatus (Fabr.) in the fight against the potato beetle Leptinotarsa decemlineata (Say): First results obtained in France.
4544

Predatory activity of Luciola cruciata (Olivier, 1886) (Coleoptera: Lampyridae) larvae on newly hatched Biomphalaria glabrata.
4558

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

Biology of Gynaikothrips karnyi Bagnall, the marginal gall forming thrips of pepper.
4616

PREDACEOUS NEMATODES
The role of nematodes in horticulture.
4767

PREDATORY BIRDS
Are woodpeckers the answer to pine bark beetle attacks .
4450

PRICE CONTROL
NPCA conference speakers hit PCO pricing methods.
4949

PRODENIA LITURA
Notes on insect and gastropode damage to enclosed cotton plantations.
4671

PRODUCTIVITY
Host-parasite relationship. 1. Studies on the productivity of sheep as affected by Haemonchosis.
4858

PROFITS
Prevent worms to increase sheep profits.
4856

PROLINE
Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

PROMETRYNE
Studies on chemical weed control with fodder kale.
4771

PROPARGYL BROMIDE
Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

PROPAZINE
Studies on chemical weed control with fodder kale.
4771

PROSIMULIUM HIRTIPES
Contributions to the (Diptera, Simuliidae) fauna of Austria. III. The fauna of the valley of the YBBS.
4851

PROTECTIVE CLOTHING
Spider mites on cotton; how to control them.
4737

PROTEIN HYDROLYSATES
A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

PROTEIN SYNTHESIS
Cold-sensitive mutations in Salmonella typhimurium which affect ribosome synthesis.
4844

PROTEINS
Evidence, by cellulose acetate electrophoresis, of a vitellogenetic protein in the hemolymph of the female imago of the cabbage pierid (Pieris brassicae L.).
4538

Polyacrylamide gel electrophoretic analysis of the proteins of Locusta migratoria (L.) and the corresponding albino mutant.
4561

Intraspecific qualitative and quantitative variations of the hemolymph proteins of Cophopodisma pyrenae (Fisch.), (Orthoptera, Catantopidae) as a function of biogeographic area.
4562

Protective action of the encephalitogen and other basic proteins in experimental allergic encephalomyelitis.
4808

The pale muscle problem in pigs.
4845

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

PROTOZOA
Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

Crithidia mellificae n. sp. an acidophilic trypanosomatid of the honey bee Apis mellifera.
4539

Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

PROTOZOAL VACCINES
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

PRUNING
Pruning produces perfect, pest-free peaches.
4762

PRUNUS CAROLINIANA
Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

PSEUDOCOCCUS
Notes on insect and gastropode damage to enclosed cotton plantations.
4671

PSEUDOCOCCUS MARITIMUS
Cytology and cytochemistry of the mycetone of Pseudococcus maritimus (Earhorn) (Homoptera Coccidae.
4550

PSEUDOMONADACEAE
Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

Tricarboxylic acid cycle activity in a pseudomonad.
4922

PSEUDOMONAS AERUGINOSA
The nature of pathogenicity of Pseudomonas aeruginosa for Galleria mellonella.
4551

PSEUDOMONAS PHASEOLICOLA
Seed contamination in transmission of halo blight in beans.
4694

PSEUDORABIES
Respiratory disease in the pig. II.
4798

PSEUDOTUBERCULOSIS
Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases.
4829

PSYLLA PYRICOLA
The influence of external factors on the anticipated elimination of the diapause of Psylla pyri (Homoptera: Psyllidae).
4608

PSYLLIDAE
A new genus and species of Psyllidae (Homoptera) from South Africa.
4367

Preliminary observations on the choice of host plants by adults of the citrus psylla, Trioza erypreae (Del Guercio) (Homoptera: Psyllidae).
4749

PTERIDINE
A yellow mutant strain of the large milkweed bug, Oncopeltus fasciatus, that lacks erythropterin.
4645

PTEROSTICHUS
Prothetely in Carabidae of the genus Pterostichus.
4577

PUBLIC HEALTH
Our struggle against pests.
4960

PUBLIC RELATIONS
1969-Pest Control's economic forecast.
4951

Our struggle against pests.
4960

PUCCINIA GRAMINIS TRITICI
Role of potash application in reducing black rust of wheat.
4680

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

PUPAE
Taxonomic notes on the larva of British Diptera. no. 25, The larva and pupa of Dioctria rufipes (Degeer) (Asilidae).
4363

Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

An action of insect hormones on carbohydrate metabolism in insects.
4531

PUPAL CASES
Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

PYRALIDAE
First records of eye-frequenting moths from Ceylon.
4365

Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

Apomyelois bistriatella: A moth which feeds in an ascomycete fungus (Lepidoptera: Pyralidae).
4583

Don't take lightly these brinjal borers.
4759

PYRAZON
Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

PYRETHRUM
Specificity in insecticides.
4507

PYRILLA PERPUSILLA
The presence of positive paraldehyde fuchsin granules in the pedicle of the ovary of Pyrilla perpusilla Walker (Insecta Homoptera Fulgoroidea).
4588

PYRRHOCORIS APTERUS
Isolation and a study of the mode of action of a polygalacturonase in insects (Pyrrhocoris apterus).
4482

QUANTITATIVE ANALYSIS
Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

QUERCUS
The important forest pests of Spain.
4660

RABBITS
Ultrastructure of homogeneous bodies and cellular bodies during the course of rickettsial infections.
4813

Experimental infection of laboratory animals with Ascaris suum.
4855

RABIES
The reappearance of rabies in France. First case in a fox in Moselle.
4793

RABIES VIRUS
The role of interferon in the interference phenomenon between vaccinia virus and fixed rabies virus.
4847

RADIATION
Effect of ionizing radiation on Dacus zonatus fruit fly eggs and larvae in situ.
4505

Data in evidence of a retardation of development of Drosophila melanogaster by a reduction in the natural environmental radiation.
4582

RADIOACTIVE TRACERS
The influence of the brood comb on food exchange between honeybee workers (Apis mellifera).
4486

Cytoplasmic particles carrying rapidly labeled RNA in developing insect epidermis.
4523

Tritium labelling and cytochemistry of extra DNA in Acheta.
4642

Chromosome replication in Salmonella typhimurium.
4805

RADIOACTIVITY
An action of insect hormones on carbohydrate metabolism in insects.
4531

Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure.
4937

RADIOBIOLOGY
Action of natural ionizing radiations on reproduction in the metazoa: Research on Drosophila melanogaster.
4581

RADIOISOTOPES
Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

RAPE
Community studies on Hymcnoptera found on Brassica napus. Part IV. Aculeata.
4567

Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

RASPBERRIES
A new gene from Rubus occidentalis L. for rcsistance to strains 1, 2 and 3 of the rubus aphid, Amphorophora rubi Kalt.
4746

RATS
Experimental transmission of plague by Synopsyllus fonquerniei of Madagascar.
4800

Hormonal effect on certain glycolytic cnzymes of rat mammary gland.
4831

The cffects of pantothenic acid, pantoyltaurine, salicylate and related compounds on the in vitro and in vivo growth of Trypanosoma lewisi.
4839

Structurc of Klcin's mctabolites of aldrin and of dieldrin.
4926

RED ROT
Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

REDPEPPERS (VEGETABLE)
The inhcritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

REGIONS
An inventory of market news reports for poultry.
4954

REGRESSION ANALYSIS
Caterpillar size and the dosage of Bacillus thuringiensis preparations.
4621

REGULATION (PESTICIDES)
Tolerances and exemptions from tolerances for pcsticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog.
4881

REGULATIONS
Part II proposed for paraquat.
4962

REPORTS
Collection of reports given at the International Herbicide Conference. Prague, Czechoslovakia, 21-24 June 1966.
4784

REPRODUCTION
Study of the multiplication of Sindbis arbovirus in Drosophila.
4509

Adult emergence interval and reproduction in parasitic Hymenoptera influenced by host size and density.
4545

Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

Virus multiplication.
4614

Seasonal changes in the direction of mating in Drosophila melanogaster in the experiments with a natural inversion.
4636

Study of the multiplication, in a unique clone cyclc, of classic swine fever virus in an immunofluorescent medium.
4794

Inhibition of the multiplication of foot-and-mouth virus in an adult mouse which had first becn treated with the adjuvant of Freude .
4814

Pesticide residues in a marine population of double-crested cormorants.
4883

On the influence of cffluent of the starch factory upon the Yubetsu Rivcr and thc Shokotsu river, and of effluent of the best factory upon the benthic animals in the Abashiri River (Hokkaido).
4955

REPRODUCTIVE ORGANS
Contribution to the systematics and zoogeography of Halticinae (Col.) in the Canary Islands.
4410

Comparative effects of allatectomy on the activity of the male accessory glands and on the sexual behavior of two acridids: Schistocerca gregaria and Locusta migratoria (sub-species migratorioides and Razalinsk).
4470

The origin and growth of the genital disc in Drosophila melanogaster Meig.
4540

Evidence of a modified ovarian region in the hair glands of the Coleopteron, Hydrophilidae. Comparative anatomic data.
4554

Remarks concerning the terminology of the gcnitalia armor in the genus Argynnis (S.L.). (Lepidoptera, Nymphalidae).
4573

A comparative morphological study of the male cxternal gcnitalia of the type-species of some South African Notodontidae (Lepidoptera).
4611

An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

REPTILES
Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

RESEARCH
Choice of resting site by Noctuidae (Lepidoptcra).
4352

Opsius stactogalus Fieb. (Hem., Cicadellidae) in S. E. London.
4354

Predatory behaviour of a Dolichopodid and an Ephydrid (Dipt.).
4449

The occurrcnce of Theognis occidcntalis in the Midwestern United States (Heteroptera: Coreidae).
4592

On the investigative methods of the sound characteristics of small cicadas (Homoptera-Cicadina).
4603

Preservative treatments and service life of fence posts in Puerto Rico.
4658

Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

Needed: A miracle method for soil borne disease control.
4695

1967 field trials on control of coffee berry disease in Kenya. I.-V.
4698

Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

Weed control studies in strawberries.
4779

Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

Our struggle against pests. II.
4872

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Tcxas.
4876

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Search for new insecticides.
4893

A synopsis of the pesticide problem.
4899

Theory of disinfectant testing.
4941

How Ian Hendrif is stecring Shell International into expanding pesticide markets.
4948

On the influence of effluent of the starch factory upon the Yubetsu River and the Shokotsu river, and of effluent of the best factory upon the benthic animals in the Abashiri River (Hokkaido).
4955

Our struggle against pests.
4960

RESERVOIRS
Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

RESIDUES
Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlifc at Presidio, Texas.
4876

Some observations concerning the maximum dosage ordinance.
4897

An analytical method for determining arsenic in biological material.
4900

The dipyridillics in tomato cultures.
4914

RESISTANCE
Electrical resistance of intact integument throughout the molt cycle of a cockroach.
4593

Effect of high temperatures on the resistance of insects to infectious diseases.
4607

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

Thermoresistant Clostridium perfringens of the A type in poultry.
4807

A tidal rhythm in the susceptibility of Fundulus similis to sodium chloride and endrin.
4896

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

RESPIRATORY DISEASES
Respiratory disease in the pig. II.
4798

RESPIRATORY SYSTEM
Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

REVIEWS
The entomological year 1966.
4351

Form and mechanism of transmission of plant viruses. Transmission of viruses by arthropods.
4728

Form and mechanism of transmission of plant viruses. Transmission of viruses by nematodes.
4729

Outline of Syrian parasitology.
4790

RHIZOCTONIA SOLANI
Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

New fungicide promises effective and economical plant disease control.
4682

RHIZOSPHERE
Rhizosphere root exudates and their effect on microbial activity.
4662

RHODNIUS PROLIXUS
Histochemical data on the neurosecretory allata terminations in Antheraea pernyi Guer. (Lepidoptera, Attacidae) and in Rhodnius prolixus Stal. (Hemiptera, Reduviidae).
4469

RHYNCHOSCIARA
A new culture method for Rhynchosciara.
4563

RIBONUCLEIC ACID
Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Cytoplasmic particles carrying rapidly labeled RNA in developing insect epidermis.
4523

The action of formamide on turnip yellow mosaic virus: Obtaining artificial capsids.
4686

The action of urea on turnip yellow mosaic virus. The properties of RNA obtained at the time of artificial capsid formation.
4701

Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

RIBOSOMES
Cold-sensitive mutations in Salmonella typhimurium which affect ribosome synthesis.
4844

RICE
Ichneumonidae (Hymenoptera) collected in paddy fields of the Orient, with descriptions of new species. Part 2. Subfamilies Porizontinae, Metopiinae and Diplazontinae.
4412

Identification of the braconid parasites of rice borers (Hymenoptera: Braconidae).
4440

Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B.
4673

Host range of Xanthomonas oryzae in the Philippines.
4689

Studies on Phyllosticta blight of rice.
4703

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

Ag firm concentrates on waterless spraying.
4943

RICKETTSIA PROWAZEKI
Ultrastructure of homogeneous bodies and cellular bodies during the course of rickettsial infections.
4813

RICKETTSIAL DISEASES
Ultrastructure of homogeneous bodies and cellular bodies during the course of rickettsial infections.
4813

RINDERPEST VIRUS
Protection against Rinderpest conferred to cattle by an inactivated virus adapted to cattle cells.
4835

RING SPOT
Inter-species and inter-genera crosses in Caricaceas and their phytotechnical implications.
4696

Inoculation of Carica papaya L. with the ringspot distortion virus under various conditions.
4733

ROOT HAIRS
Rhizosphere root exudates and their effect on microbial activity.
4662

ROOTS
Cryptogama diseases of the root system. Prevention and control.
4681

Diagnoses of pear decline and rootstock identification in young pear orchards.
4687

Efficiency of some fungicides in the disinfection of the carnation roots.
4692

Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contact of roots.
4702

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

ROOTSTOCKS
The effect of rootstocks on the transformation of some factors of the physiological immunity in leaves of mildew-susceptible grape varieties.
4717

ROTENONE
The warble fly.
4568

ROUS SARCOMA VIRUS
The presence of particles with the appearance of nucleocapsids associated with mitochrondrites in the cells of a hamster infected with Rous virus.
4812

Persistance of the genome of the Rous virus in hamster cells changed in vitro, and the action of inactivated Sendai virus on its transmission to chick cells.
4848

RUBBER
Termite control in rubber plantations.
4521

The resistance of Fx and IAN rubber clones to leaf diseases in Brazil.
4693

RUST
Rust infection protects beans against heat injury.
4732

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

RUTACEAE
Preliminary observations on the choice of host plants by adults of the citrus psylla, Trioza erypreae (Del Guercio) (Homoptera: Psyllidae).
4749

RUTHENIUM
New data on accumulation of S35 and Ru106 by dragonfly nymphs (Odonata).
4497

SAFETY DEVICES
A look at the plant pest control divison.
4887

SAFETY EDUCATION
Use insecticides safely.
4901

SALES
1969-Pest Control's economic forecast.
4951

The pesticide review.
4952

SALINE SOILS
Inhibition of the oviposition behavior of the migrator locust (Locusta migratoria L.) caused by the salinity of the soil.
4543

SALIVARY GLANDS
A specific chromosome element, the telomere of Drosophila polytene chromosomes.
4628

On the structure of the salivary chromosomes of Bilobella massoudi Cassagnau (Collembola: Neanuridae).
4630

The salivary gland chromosomes of the mosquito Culex pipiens. I. The normal chromosome complement.
4632

SALMONELLA
Salmonella abony-Salmonella typhimurium recombinant nonvirulent for the mouse.
4822

Isolation of conjugation-constitutive mutants of Colicin factor Ib.
4832

Serum antibody to Salmonella flagellar antigens. I. Methods of antibody assay.
4850

SALMONELLA CHOLERAESUIS
Association of increased recipient ability for R factors and reduced virulence among variants of Salmonella choleraesuis var. kunzendorf.
4819

SALMONELLA PULLORUM
Studies on the treatment and prophylaxis of Salmonella pullorum infection in chicks with chloromycetin.
4820

SALMONELLA TYPHIMURIUM
Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

Chromosome replication in Salmonella typhimurium.
4805

2-deoxyribose gene-enzyme complex in Salmonella typhimurium: Regulation of phosphodeoxyribomutase.
4818

Salmonella abony-Salmonella typhimurium recombinant nonvirulent for the mouse.
4822

Cold-sensitive mutations in Salmonella typhimurium which affect ribosome synthesis.
4844

SALMONELLA TYPHOSA
Intracellular localization and characteristics of lactate dehydrogenase activity of Salmonella typhosa (NCTC 8385).
4936

SALSOLA KALI
Germination of Russian thistle seeds.
4916

SAMIA CYNTHIA PRYERI
An action of insect hormones on carbohydrate metabolism in insects.
4531

SAMIA CYNTHIA RICINI
A semi-synthetic diet for Eri-silkworm raising.
4492

The development of an artificial diet not containing leaf powder of any food plants for Eri-silkworm raising.
4493

SANITATION
The reappearance of rabies in France. First case in a fox in Moselle.
4793

SAPROPHYTES
Rhizosphere root exudates and their effect on microbial activity.
4662

The role of nematodes in horticulture.
4767

SARCOPHAGIDAE
Contribution to the biological study of the Diptera Sarcophagidae, parasites of acridids. The biological cycle of Blaesoxipha rossica Vill., injection of larvae in the body of the host by the female Sarcophagidae.
4547

SATYRIDAE
A note on the family Euptychia (s. l.) (Lep. Satyridae).
4405

SCAB
Disease control in nonbearing orchards.
4699

SCALD
DPA for scald control.
4715

Problems with scald inhibitors.
4863

SCHISTOCERCA GREGARIA
Comparative effects of allatectomy on the activity of the male accessory glands and on the sexual behavior of two acridids: Schistocerca gregaria and Locusta migratoria (sub-species migratorioides and Razalinsk).
4470

Recent data on the origin of larval polymorphism at hatching in the migratory grasshopper, Schistocerca gregaria Forskal.
4578

SCHISTOSOMA
General method for the culture of helminths in anaerobic conditions.
4854

SCIARA COPROPHILA
Extra replications in the DNA-PUFFS of Sciara coprophila.
4631

SCIOMYZIDAE
A new genus and species of Sciomyzidae from Tanzania, with a key to the genera of the Ethiopian region and distributional notes (Diptera: Facalyptratae).
4401

SCLEROTINIA
Fairway disease control.
4674

SCLEROTINIA SCLEROTIORUM
Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B.
4673

SCLEROTIUM BATATICOLA
Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

SCOLYTIDAE
Are woodpeckers the answer to pine bark beetle attacks.
4450

SECRETION
Study of the tegumentary glands and their secretory cycle in the larva of Tipula flavolineata Meig..
4579

The importance of heterogeneity in the sexual attraction exercised by female Acrolepia assectella Zeller.
4587

Single unit activity in the visual pathway of the butterfly Heliconius erato.
4605

Honey bee recruitment to food sources: Olfaction or language.
4619

The relationship of some insects (Aphididae, Largidae, Pentatomidae, Coccinellidae and Malachiidae) to the pearlhairs or glanduliform emergences of Carica papaya L.
4736

Choleresis in sheep.
4830

SECRETIONS
Some effects of castration on the protocerebral neurosecretion of the females of Polistes (Hymenoptera, Vespidae).
4601

SEED GERMINATION
The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
4685

Germination of Russian thistle seeds.
4916

SEED INSECTS
Attack on moco cotton by pink bollworm in Ceara.
4756

SEED PRODUCTION (HORTICULTURE)
Attack on moco cotton by pink bollworm in Ceara.
4756

SEED TREATMENT
Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

SEED VIABILITY
The determination of the embryo viability of weed seeds by the TTC method.
4917

SEED-BORNE PLANT DISEASES
Seed contamination in transmission of halo blight in beans.
4694

Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contact of roots.
4702

SEEDLINGS
Cultivation of the sapogenin-bearing Dioscorea species.
4664

The influence of illumination on the development of tumors caused by Agrobacterium tumefaciens (Smith and Town) Conn. on pea seedlings, Pisum sativum L..
4707

Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings.
4903

The effect of CCC and Amo-1618 on growth, catalase, peroxidase and indoleacetic acid oxidase activity of young barley seedlings.
4908

SEEDS
Seed contamination in transmission of halo blight in beans.
4694

Germination of Russian thistle seeds.
4916

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

SEPTORIA
Pessimism over crop diseases.
4679

SEROLOGICAL TESTS
Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

The nature of pathogenicity of Pseudomonas aeruginosa for Galleria mellonella.
4551

Virulence, adsorbability, and antigenicity of foot-and-mouth disease virus selected by adsorption with homogenized mouse kidney.
4802

SERROPALPUS SUBSTRIATUS
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

SERUM
Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

SESONE
Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

SETARIA ITALICA
Effect of Spartin under dryland farming on Setaria italica (Beauv.).
4915

SEWAGE TREATMENT
Abundance and microdistribution of larval Chironomidae in stabilization lagoons.
4432

SEX
Sex lure hoax may prove male beet wireworm's undoing.
4765

Isolation of conjugation-constitutive mutants of Colicin factor Ib.
4832

SEX ATTRACTANTS
Specificity in insecticides.
4507

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

SEX BEHAVIOR
The importance of heterogeneity in the sexual attraction exercised by female Acrolepia assectella Zeller.
4587

SEX DETERMINATION
DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae).
4633

The karyotype of some Australian species of Macropathinae (Gryllacridoidea--Rhaphidophoridae).
4643

Sex chromatin in Lepidoptera.
4649

SEX RATIOS
Effect of melatonin on egg production of the boll weevil, Anthonomus grandis.
4571

SHEEP
Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

Axis cylinder degeneration associated with ryegrass staggers in sheep and cattle.
4825

Choleresis in sheep.
4830

Immunochemical characterization of sheep plasma glycoprotein.
4838

Prevent worms to increase sheep profits.
4856

Host-parasite relationship. 1. Studies on the productivity of sheep as affected by Haemonchosis.
4858

SIALIC ACIDS
Release of sialic acid from caseins of cow and buffalo milk by cow and buffalo rennets.
4791

SILICA GELS
Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

TLC spotting solvent for aflatoxins.
4938

How to prevent and remove mildew; home methods.
4959

SILICATES
The pesticide review.
4952

SIMAZINE
Studies on chemical weed control with fodder kale.
4771

Weed control in potato cultures without adverse effects on the potato quality.
4781

SIMULIIDAE
Studies of black flies of Panama. III. Two new species of Simulium of the subgenus Hemicnetha.
4383

Contributions to the (Diptera, Simuliidae) fauna of Austria. III. The fauna of the valley of the YBBS.
4851

SINDBIS VIRUS
Study of the multiplication of Sindbis arbovirus in Drosophila.
4509

SIPHONAPTERA
Records of Ohio fleas (Siphonaptera).
4397

SITOPHILUS ORYZAE
The identity of Sitophilus oryzae.
4462

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

SITOPHILUS ZEAMAIS
The identity of Sitophilus oryzae.
4462

SITOTROGA CEREALELLA
Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

SKIM MILK
The nourishment of milk calves is essential for the future of the product.
4787

SMELL
Honey bee recruitment to food sources: Olfaction or language.
4619

SNAILS
Predatory activity of Luciola cruciata (Olivier, 1886) (Coleoptera: Lampyridae) larvae on newly hatched Biomphalaria glabrata.
4558

Biological control of snails exerted by Euglandina rosea (Ferussac) in Bermuda.
4786

Larval development of a nematode parasite of the dog circulatory system in dulcaquicoles mollusks.
4857

SOCIAL INSECTS
Brood care in halictine bees.
4529

SODIUM
The focal distribution of lesions of porcine hypernatremic eosinophilic meningo-encephalitis for diagnostic purposes.
4803

SODIUM BORATE
Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

SODIUM CHLORIDE
A tidal rhythm in the susceptibility of Fundulus similis to sodium chloride and endrin.
4896

SODIUM SULFATES
Variation of Florisil activity: Simple method for measuring adsorbent capacity and its use in standardizing Florisil columns.
4934

SODIUM TRIPOLYPHOSPHATE
Sodium tri-polyphosphate carried by tanker.
4950

SOIL ANALYSIS
Fertilization of semi-mature stands in Newfoundland.
4652

Needed: A miracle method for soil borne disease control.
4695

A look at the plant pest control divison.
4887

SOIL CHEMISTRY
Inhibition of the oviposition behavior of the migrator locust (Locusta migratoria L.) caused by the salinity of the soil.
4543

SOIL EROSION
Rhizosphere root exudates and their effect on microbial activity.
4662

SOIL FUMIGATION
Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966.
4725

Fumigants and specific nematocides in the control of phytophagous nematodes.
4769

The machinery generally used for efficient sterilization and disinfestation of the soil.
4945

For a better and more profitable technique in the application of soil fumigants.
4946

SOIL FUNGI
Cryptogama diseases of the root system. Prevention and control.
4681

The reciprocal relationships in mixed cultures of entomophagous fungi and the effect of some Hyphomycetes on their growth.
4690

Problems in monitoring DDT and its metabolites in the environment.
4889

SOIL INSECTS
Notes on methods for the extraction of small soil arthropods by the high gradient apparatus.
4552

Diazinon against plant pests.
4655

SOIL MICROORGANISMS
Rhizosphere root exudates and their effect on microbial activity.
4662

Occurrence of antibacterial and antifungal actinomycetes in cultivated soils of West Bengal.
4667

The effects of soil sterilization procedures on the microbiological equilibrium of the soil.
4672

Needed: A miracle method for soil borne disease control.
4695

The machinery generally used for efficient sterilization and disinfestation of the soil.
4945

SOIL MOISTURE
Abundance and microdistribution of larval Chironomidae in stabilization lagoons.
4432

Irrigation by spraying.
4659

Black stem- the second stem disease of grains.
4734

SOIL PROPERTIES
Rhizosphere root exudates and their effect on microbial activity.
4662

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

SOIL SERIES
Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

SOIL STERILIZATION
The effects of soil sterilization procedures on the microbiological equilibrium of the soil.
4672

Disinfection and disinfestation of the soil. Proceedings of the international Congress on Plant Disease. Sanremo, 1-4 December 1966.
4725

Weeds and their control.
4782

The machinery generally used for efficient sterilization and disinfestation of the soil.
4945

SOIL STRUCTURE
Annual report of the Department of Agriculture for the year 1962/63. (II).
4665

SOIL TREATMENT
Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

SOIL-BORNE PLANT DISEASES
Pessimism over crop diseases.
4679

Needed: A miracle method for soil borne disease control.
4695

SOILS
Some observations on ecological, physiological and biochemical aspects of weed control.
4776

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

SOLENOPSIS SAEVISSIMA RICHTERI
Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultrual commodities. Dodecachlorooctahydro-1,3,4-metheno-2th-cyclobuta (cd) pentalene.
4882

SOLUBILITY
The biochemistry of Vibrio cholerae: Part IV. Acid soluble nucleotide constituents.
4927

SOMATINA HOMBERGI
A new Somatina of the Congo. (Lepidoptera Geometridae).
4393

SORGHUM
Studies on Phyllosticta blight of rice.
4703

SOYBEANS
Domestic quarantine notices. Soybean cyst nematode. Quarantine and regulations.
4764

SPECTROMETRY
Structure of Klein's metabolites of aldrin and of dieldrin.
4926

SPECTROPHOTOMETRY
An analytical method for determining arsenic in biological material.
4900

SPECTROSCOPY
Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B.
4673

SPERMATOCYTES
Chromosome numbers of some central European Cerambycidae. II.
4648

SPERMATOGENESIS
Spermiogenesis in Aedes aegypti (L.).
4536

SPERMATOZOA
New observations on the transport of intranuclear microorganisms, called Phi particles, by the spermatozoids in homopterous insects.
4556

SPHECIDAE
Revision of the nominate subgenus Sceliphron Latreille (Hymenoptera, Sphecidae) (Studies on the Sceliphronini, part I).
4435

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

SPHINGIDAE
Lepidoptera collected in a light trap during the winter 1962/63 in Assiut, Egypt.
4413

SPILONOTA OCELLANA
Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller).
4553

SPIROCHAETA
The infrastructural morphology of Pillotina calotermitidis nov. gen., nov. sp., a Spirochaetales of the intestine of Calotermes praecox.
4513

SPORE GERMINATION
Morphology and mode of germination of conidia of Helminthosporium oryzae in relation to its taxonomy.
4657

Zoospore in Phytophthora parasitica var. subdariffae.
4666

SPORES
Effect of mixed spore inocula of Botrytis ssp. on lesion development in the leaves of bean (Vicia faba L.).
4718

Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

SPRAYING
The boll weevil; How to control it. Part II.
4348

Biology and control of native and introduced forest insects in the Nearctic Zone.
4375

First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

A comparative study on the effects of aerial versus ground spraying of poisoned baits against the Mediterranean fruit fly on the natural enemies of scale insects in citrus groves.
4454

Integrated control of the fruit-tree leaf roller, Archips argyrospilus (Walker), and the eye-spotted bud moth, Spilonota ocellana (Denis and Schiffermuller).
4553

Irrigation by spraying.
4659

Co-operative spraying against banana pests.
4683

Disease control in nonbearing orchards.
4699

Black spot of apple.
4700

DPA for scald control.
4715

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

Thiram thins Granny Smith apples.
4726

Several measures used to combat fruit plant viruses.
4731

Drench your trees against San Jose scale.
4738

Insect and mite control on nursery stock in Ohio.
4743

Toxicity of organophosphorous insecticides applied as foliar spray, soil drench and seed treatment to Aphis gossypii Glover (Aphididae: Homoptera).
4757

Don't take lightly these brinjal borers.
4759

Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Persistence of DDT in crayfish in a natural environment.
4878

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Growth retardant tests on potted poinsettias.
4905

A preliminary study of the extraction of parathion and Diazinon by the Mills, Onley, Gaither Acetonitrile Procedure.
4937

How to prevent and remove mildew; home methods.
4959

STAND DENSITY
Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

STAND INCREMENT ESTIMATES
Fertilization of semi-mature stands in Newfoundland.
4652

STAPHYLINIDAE
Aleochara stichai Likovsky (Col., Staphylinidae) new to Britain.
4398

Hypocyphtus nitidus Palm (Col., Staphylinidae) in Oxforoshire: An addition to the British list.
4399

A new Schistoglossa specie from Sweden (Col. Staphylinidae, Aleocharinae).
4419

Stenus and Megalopinus Motschulsky genera and remarks on the subgenus Tesnus Rey, with a table of the Palearctic representatives (Coleoptera, Staphylinidae). (54. Contribution to the knowledge of the Stenus genus).
4423

STAPHYLOCOCCUS
Experiences with culture media for the selective microbiological analysis of meatproducts.
4869

STAPHYLOCOCCUS AUREUS
Staphylococcal intoxication of young suckling whelps.
4840

STARCHES
On the influence of effluent of the starch factory upon the Yubetsu River and the Shokotsu river, and of effluent of the best factory upon the benthic animals in the Abashiri River (Hokkaido).
4955

STARVATION
Action of ecdysone on the larvae of Drosophila melanogaster subjected to starvation. The existence of two pre-requisites for the formation of the puparium.
4491

STATISTICAL ANALYSIS
Abundance and microdistribution of larval Chironomidae in stabilization lagoons.
4432

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

A tidal rhythm in the susceptibility of Fundulus similis to sodium chloride and endrin.
4896

STEPHANIDAE
New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar.
4391

STEROIDS
Cultivation of the sapogenin-bearing Dioscorea species.
4664

STEROLS
Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

STILPNOTIA SALICIS
Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

STIMULANTS
Gibberellin delays ripening of tomatoes.
4906

STINGING
Laelius utilis Cockerell (Hymenoptera: Bethylidae) stinging a child at London, Ontario.
4651

STOMOXYS CALCITRANS
Electrophysiological study of contact chemoreceptors in bloodsucking Diptera.
4624

STORAGE
The problem of the potato blackleg disease.
4697

Problems with scald inhibitors.
4863

Bacteriostatic properties of milk from tropical countries.
4868

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticides in people. Storage of DDT in the people of Israel.
4890

Effects of chemical preservatives and storage on constituents used to characterize lemon juice.
4940

STORAGE DISEASES
DPA for scald control.
4715

STORAGE INJURIES
Bulk wheat pests can be controlled by simple precautions.
4866

STORED PRODUCT INSECTS
Response of some stored-product insects to Trogoderma granarium pheromones.
4625

STORED PRODUCTS
Insect pathogens and microbial control of insects in stored products. I. Test with Bacillus thuringiensis Berliner against moths.
4864

Susceptibility of different stored-products moth larvae to Bacillus thuringiensis.
4867

STRAWBERRIES
Weed control studies in strawberries.
4779

STREAMS
Persistence of DDT in crayfish in a natural environment.
4878

STREPTOCOCCUS
Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

STREPTOMYCIN
Disease control in nonbearing orchards.
4699

Sensitiveness of E. coli isolated from the intestines of broilers in the terrain to chlortetracyclin, streptomycin and furazolidon in 1966.
4795

Some biochemical changes taking place in the course of the transformation of streptomycin resistance in streptococci.
4932

STRIDULATION
Sound production in the white-pine weevil, Pissodes strobi, and the northern pine weevil, P. approximatus.
4506

On the investigative methods of the sound characteristics of small cicadas (Homoptera-Cicadina).
4603

STRIPE RUST
Pessimism over crop diseases.
4679

Wheat.
4691

SUBSTRATES
Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

SUCROSE
Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

SUGAR BEETS
Sugar beet crop protected through aerial application.
4721

Sex lure hoax may prove male beet wireworm's undoing.
4765

Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.).
4766

Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4774

Study of the selectivity of herbicides for sugarbeets, using laboratory, greenhouse and physiological methods. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4785

SUGARCANE
Influence of infestation by early shoot borer Chilotraea infuscatellus Sn. on shoot production and yield of sugarcane.
4751

SUGARS
Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

SULFAMOYL-4,4'-DIAMINODIPHENYL SULFONE, 2-
Therapeutic effect of SDDS (2-sulfamoyl-4,4'-diaminodiphenyl sulfone) on experimental toxoplasmosis.
4843

SULFATES
Studies on enzyme synthesis of cerebroside sulphate from 3'-phosphoadenosine-5'-phosphosulphate.
4788

SULFONIC ACIDS
Effects of chronic exposure to zinc on toxicity of a mixture of detergent and zinc.
4894

SULFOTEPP
Pesticide residues in cultivated mushrooms.
4891

SULFUR
New data on accumulation of S35 and Ru106 by dragonfly nymphs (Odonata).
4497

Disease control in nonbearing orchards.
4699

SULFUR DIOXIDE
Comparison of sulphur dioxide and formaldehyde as bacteriostats in diffusion. Part II.
4913

Effects of chemical preservatives and storage on constituents used to characterize lemon juice.
4940

SUNFLOWERS
Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings.
4903

SUPPLY AND DEMAND
The pesticide review.
4952

SURVEYS
Bees of the Nevada Test Site.
4355

Lepidoptera of the Nevada Test Site.
4356

Valley centipedes (Chilopoda, Symphyla) from northern Kentucky.
4362

Ichneumonidae (Hymenoptera) collected in paddy fields of the Orient, with descriptions of new species. Part 2. Subfamilies Porizontinae, Metopiinae and Diplazontinae.
4412

A revision of the subgenus Hirtodrosophila of the Old World, with descriptions of some new species and subspecies (Diptera, Drosophilidae, Drosophila).
4418

First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

The Plecoptera of a headwater stream (Gaitscale Gill, English Lake District).
4569

The infection of immature aquatic insects by larval Paragordius (Nematomorpha).
4620

Chromosome numbers of some central European Cerambycidae. II.
4648

A look at the plant pest control divison.
4887

1969-Pest Control's economic forecast.
4951

SUSCEPTIBILITY
A tidal rhythm in the susceptibility of Fundulus similis to sodium chloride and endrin.
4896

SWINE
Respiratory disease in the pig. II.
4798

The focal distribution of lesions of porcine hypernatremic eosinophilic meningo-encephalitis for diagnostic purposes.
4803

Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

Sudden death in feeder pigs.
4816

Characterization of a small porcine DNA virus.
4826

Pathological studies on pseudotuberculosis rodentium. III. Spontaneous swine cases.
4829

Therapeutic effect of SDDS (2-sulfamoyl-4,4'-diaminodiphenyl sulfone) on experimental toxoplasmosis.
4843

The pale muscle problem in pigs.
4845

SWINE INFLUENZA
Respiratory disease in the pig. II.
4798

SYMBIOSIS
Cytology and cytochemistry of the mycetone of Pseudococcus maritimus (Earhorn) (Homoptera Coccidae.
4550

SYMPHYLA
Valley centipedes (Chilopoda, Symphyla) from northern Kentucky.
4362

SYMPHYTA
Four new sawflies from Sweden (Hymenoptera, Symphyta).
4406

SYMPTOMATOLOGY
A preliminary study on the polyhedrosis virus of jute semilooper, Anomis sabulifera Guen.
4516

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

The problem of the potato blackleg disease.
4697

The viruses of the black and red currant.
4705

The role of nematodes in horticulture.
4767

Sudden death in feeder pigs.
4816

Effects of chronic exposure to zinc on toxicity of a mixture of detergent and zinc.
4894

Some pathological effects of sub-acute and acute poisoning of rainbow trout by phenol in hard water.
4898

SYNERGISTS
Specificity in insecticides.
4507

SYNTHESIS
Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

An action of insect hormones on carbohydrate metabolism in insects.
4531

DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae).
4633

Tritium labelling and cytochemistry of extra DNA in Acheta.
4642

Plant growth promoting metabolites of Sclerotinia sclerotiorum (II) The synthesis of sclerotinin B.
4673

Regulation of branched-chain amino acid biosynthesis in Salmonella typhimurium: Isolation of regulatory mutants.
4801

Isolation of conjugation-constitutive mutants of Colicin factor Ib.
4832

Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

Synthesis of substances related to gibberellins. Part XVIII. Total synthesis of (plus or minus) gibberellins A A subscript 4, A subscript 9, and A subscript 10.
4935

SYNTHETIC DIETS
Nutrition of the silkworm, Bombyx mori. XVI. Quantitative requirements for essential amino acids.
4451

A semi-synthetic diet for Eri-silkworm raising.
4492

The development of an artificial diet not containing leaf powder of any food plants for Eri-silkworm raising.
4493

Nutrition of the silkworm, Bombyx mori. XVII. Effect of dietary levels of amino acids on growth of fifth-instar larvae and on cocoon quality.
4517

SYNTHETIC FIBERS
Notes on insect and gastropode damage to enclosed cotton plantations.
4671

SYRPHIDAE
An epidemic of Entomophthora among syrphid flies of the region of Geneva.
4610

T, 2,4,5-
Blackberry control near orchards and vegetable gardens.
4770

TABANIDAE
Tabanidae (Diptera) of the Netherlands.
4403

TABANUS
Electrophysiological study of contact chemoreceptors in bloodsucking Diptera.
4624

TABLES (DATA)
The boll weevil; How to control it. Part II.
4348

Choice of resting site by Noctuidae (Lepidoptera).
4352

Industrial tests of the biological preparation Entobacterin-3 in the USSR.
4489

Termite control in rubber plantations.
4521

Practical application of Bacillus thuringiensis.
4612

Caterpillar size and the dosage of Bacillus thuringiensis preparations.
4621

Preservative treatments and service life of fence posts in Puerto Rico.
4658

Rhizosphere root exudates and their effect on microbial activity.
4662

Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

Changes in fungi with age. iv. Role of coenzymes in the respiratory decreases in Rhizoctonia solani and Sclerotium bataticola.
4669

The use of growth promoters to increase potato yields.
4677

Studies on Phyllosticta blight of rice.
4703

The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

Study of the dependence of the population dynamic of the apple moth (Carpocapsa pomonella L.) on the fruit yield of the hostplant.
4755

Resistance of Lycopersicon species to the carmine spider mite.
4760

Possibilities of limiting tillage measures in potato cultures when using herbicides. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4773

Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

Bacteriostatic properties of milk from tropical countries.
4868

Pesticides in water, Pesticides in selected western streams--A contribution to the national program.
4870

Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Pesticides in people. Storage of DDT in the people of Israel.
4890

Some experiments on polarity of IAA-2-C14 transport in Helianthus annuus seedlings.
4903

Trials with carbon dioxide, light and growth substances on forest tree plants.
4909

Ribonucleic acids in crown-gall bacteria, Agrobacterium tumefaciens (Smith and Town), treated with sodium borate.
4911

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

Structure of Klein's metabolites of aldrin and of dieldrin.
4926

TACHINIDAE
New species of the genus Trachina Mg. (diptera, Tachnidae), parasites of injurious Lepidoptera in the Ussr.
4445

TAENIA PISIFORMIS
General method for the culture of helminths in anaerobic conditions.
4854

TANK TRUCKS
Sodium tri-polyphosphate carried by tanker.
4950

TAXONOMY
Taxonomic notes on the larva of British Diptera. no. 25, The larva and pupa of Dioctria rufipes (Degeer) (Asilidae).
4363

Classification of the strains of Bacillus thuringiensis.
4485

The infrastructural morphology of Pillotina calotermitidis nov. gen., nov. sp., a Spirochaetales of the intestine of Calotermes praecox.
4513

Theory of classification of the densonucleose viruses , based on the study of molecular structures and physiochemical properties.
4823

TDE
Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Problems in monitoring DDT and its metabolites in the environment.
4889

Pesticides in people. Storage of DDT in the people of Israel.
4890

TELEOGRYLLUS COMMODUS
Cytological studies of Antipodean Teleogryllus species and their hybrids (Orthoptera: Gryllidae).
4641

TEMPERATURE
Control of metabolism in the silkworm pupal ovary by the diapause hormone.
4508

Further notes on the reproductive biology of the earwig Forficula auricularia L..
4510

Experiments on the milky disease of the larva of Melolontha melolontha L.
4515

An action of insect hormones on carbohydrate metabolism in insects.
4531

The Plecoptera of a headwater stream (Gaitscale Gill, English Lake District).
4569

Effect of high temperatures on the resistance of insects to infectious diseases.
4607

The influence of external factors on the anticipated elimination of the diapause of Psylla pyri (Homoptera: Psyllidae).
4608

The action of different temperatures on the duration of postembryonic development and the duration between molts in adults of six species of epigeous and cave Collembola, Hypogastruridae.
4609

Unstable multilunar modifying genes in the silkworm, Bombyx mori. III.
4646

Zoospore in Phytophthora parasitica var. subdariffae.
4666

DPA for scald control.
4715

Sudden death in feeder pigs.
4816

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

Cold-sensitive mutations in Salmonella typhimurium which affect ribosome synthesis.
4844

The pale muscle problem in pigs.
4845

Problems with scald inhibitors.
4863

On the antioxidative mechanism of alpha-, beta-, gamma- and delta tocopherols in lard.
4865

Bacteriostatic properties of milk from tropical countries.
4868

Problems in monitoring DDT and its metabolites in the environment.
4889

DDT: Sublethal effects on brook trout nervous system.
4892

Effects of chemical preservatives and storage on constituents used to characterize lemon juice.
4940

Some factors affecting the choice of materials for chemical plant equipment.
4947

TENEBRIO MOLITOR
Inactivation of juvenile hormone like compounds in insects.
4501

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). The importance of the composition of the medium for survival, growth, and yolk formation.
4541

The mode of action of the corpora allata in the course of yolk formation in Tenebrio molitor (Coleoptera).
4542

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). Growth and yolk formation.
4546

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

TENEBRIONIDAE
A review of darkling beetles of the tribe Leptodini (Coleoptera, Tenebrionidae).
4411

On nocturnal darkling beetles of the genus Melanesthes Lac. (Scoleoptera, Tenebrionidae) from central Kazakhstan.
4431

Biology of wasps of the tribe Cercerini, with a list of the Coleoptera used as prey.
4597

TERMITES
On a collection of termites from Daman.
4369

Termite control in rubber plantations.
4521

Preservative treatments and service life of fence posts in Puerto Rico.
4658

TERMITIDAE
The particle lining of the plasmic membrane in connection with excretion in a specialized region of the middle intestine of higher termites.
4574

TERPENES
Research on the odoriferous constituents of the terpenic fumes of various substances and their action on Ips sexdentatus Boerner (Coleoptera, Scolytidae).
4475

TESTES
On the presence of a virus in the testicle of a homopteran insect.
4555

TESTING
Tests of nematocidal fumigants in the control of the nematodes of beets (Heterodera schachtii Schm. and Meloidogyne spp.).
4766

Imidazole: Fungitoxic derivatives.
4902

TETRADIFON
First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

TETRANYCHIDAE
Spider mites on cotton; how to control them.
4737

TETRANYCHUS CINNABARINUS
Resistance of Lycopersicon species to the carmine spider mite.
4760

TETRANYCHUS URTICAE
Internal anatomy of the developmental stages of the twospotted spider mite.
4520

TETRAZOLIUM 2,3,5-TRIPHENYL-2H CHLORIDE
The determination of the embryo viability of weed seeds by the TTC method.
4917

TETROPIUM VELUTINUM
Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

TETTIGONIIDAE
The chromosome formula of the cave Orthoptera Troglophilus neglectus (Rhaphidophoridae).
4590

The karyotype of some Australian species of Macropathinae (Gryllacridoidea--Rhaphidophoridae).
4643

THEOPHILA MANDARINA
Esterase and phosphatase polymorphism in natural population of wild silkworm, Theophila mandarina L.
4626

THEREVIDAE
On the genus Dialineura Rondani, 1856 (Diptera, Therevidae).
4409

THERMOTHERAPY
Thermoresistant Clostridium perfringens of the A type in poultry.
4807

THIAZOLYL)-BENZIMIDIZOLE, 2-(4-
Thiabendazole as a broad-spectrum anthelmintic. (abstract).
4853

Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

THINNING (FRUIT)
Thiram thins Granny Smith apples.
4726

Effect of gibberellic acid on the fruit-set, and partheno-carpic development of fruit in Bhokri grapes. (Vitis vinifera L).
4919

THIRAM
Efficiency of some fungicides in the disinfection of the carnation roots.
4692

Thiram thins Granny Smith apples.
4726

THRIPIDAE
New synonymy in the South African genus Synaptothrips Trybom (Thysanoptera) with a key to the species.
4414

Redefined concept of the genus Synaptothrips with redescriptions of two species (Thysanoptera: Thripidae).
4426

New records of South African Thysanoptera with description of a new Phlaeothripid genus.
4446

THRIPS TABACI
Thrips infesting the tips of asparagus spears.
4740

THYMIDINE
DNA synthesis in the neo-X neo-Y sex determination system of Dichroplus bergi (Orthoptera: Acrididae):
4633

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

THYSANOPTERA
New records of South African Thysanoptera with description of a new Phlaeothripid genus.
4446

TICK PARALYSIS
Pest-management concepts and control of tick paralysis in British Columbia.
4849

TILLAGE
Cultivation of the sapogenin-bearing Dioscorea species.
4664

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

Possibilities of limiting tillage measures in potato cultures when using herbicides. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4773

Results of tests with a new corn cultivation technology, using a minimum of work effort and the effectiveness of new herbicides under the conditions prevailing in the Socialist Rumanian Republic. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4783

TINGIDAE
The nymphal instars of four lace bugs from Czechoslovakia. (Heteroptera, Tingidae).
4604

TIPULA FLAVOLINEATA
Study of the tegumentary glands and their secretory cycle in the larva of Tipula flavolineata Meig..
4579

Study of the tracheal units and nodular tracheal cells in Tipula flavolineata Meig..
4580

TIPULA OLERACEA
Results of a study on controlling Tipula olercea L. showing a marked resistance to some chlororganic insecticides.
4750

TIPULIDAE
Several discoveries of Tipulidae and Limoniidae (Dipt.) from Corsica.
4386

TISSUE CULTURE
In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). The importance of the composition of the medium for survival, growth, and yolk formation.
4541

In vitro culture of the ovaries of Tenebrio molitor (Coleoptera). Growth and yolk formation.
4546

Study of the multiplication, in a unique clone cycle, of classic swine fever virus in an immunofluorescent medium.
4794

The effects of pantothenic acid, pantoyltaurine, salicylate and related compounds on the in vitro and in vivo growth of Trypanosoma lewisi.
4839

Persistance of the genome of the Rous virus in hamster cells changed in vitro, and the action of inactivated Sendai virus on its transmission to chick cells.
4848

TISSUE TRANSPLANTS
The immobilization reflex associated with tactile stimulation of the pronotum of normal larvae of Blaberus craniifer (Burm.) and ones having received implantations of the corpora allata.
4495

TISSUES
An autoradiographic study of invertebrate uptake of DDT-CL36.
4618

Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
4685

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

TOBACCO
First evidences of viral infections in plants.
4704

Studies on the application of electrophoresis to the isolation of RNA infective fractions from tobacco plants infected with the potato virus X. I. Characterisation of RNA preparations from tobacco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

Results of a study on controlling Tipula olercea L. showing a marked resistance to some chlororganic insecticides.
4750

TOBACCO MOSAIC VIRUS
Polysome formation with tobacco mosaic virus RNA.
4708

TOCOPHEROLS
On the antioxidative mechanism of alpha-, beta-, gamma- and delta tocopherols in lard.
4865

TOLERANCES
Physiological responses of insects to nicotine.
4623

Residues in food and feed. Chlorinated pesticide residues in fluid milk and other dairy products in the United States.
4880

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Parathion or its methyl homolog.
4881

Pesticides in soil. Monitoring for chlorinated hydrocarbon pesticides in soil and root crops in the Eastern States in 1965.
4886

TOMATOES
Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

Resistance of Lycopersicon species to the carmine spider mite.
4760

Gibberellin delays ripening of tomatoes.
4906

The dipyridillics in tomato cultures.
4914

TORDON
Blackberry control near orchards and vegetable gardens.
4770

TORTRICIDAE
Records and descriptions of Palearctic and south Asiatic Laspeyresiini (Lepidoptera: Tortricidae).
4417

The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

TOXICITY
Specificity in insecticides.
4507

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

TOXICOLOGY
DDT: Sublethal effects on brook trout nervous system.
4892

Effects of chronic exposure to zinc on toxicity of a mixture of detergent and zinc.
4894

A synopsis of the pesticide problem.
4899

An analytical method for determining arsenic in biological material.
4900

Use insecticides safely.
4901

TOXINS
Teratological effects on the nymphs and adults of insects, the larvae of which have ingested sublethal doses of the thermostable toxin of Bacillus thuringiensis Berliner.
4468

Two strains of Bacillus thuringiensis Berliner isolated from larvae of disparate Bombyx Lymantria dispar.
4503

Use of cherry-laurel foliage for preparation of an effective insect-killing jar.
4504

The nature of pathogenicity of Pseudomonas aeruginosa for Galleria mellonella.
4551

Poisoning of Pieris brassicae L. by an enzyme fraction of the toxin of the crystals of the strains Bacillus thuringiensis serotype U Berliner and serotype. III. Anduze.
4560

New fungicide for potato blight.
4684

Staphylococcal intoxication of young suckling whelps.
4840

Persistence and movement of parathion in irrigation waters.
4871

Effects of low volume aerial spraying of Dursban and fenthion on fish.
4885

Some observations concerning the maximum dosage ordinance.
4897

Heat-stable elements in commercial preparations based on Bacillus thuringiensis Berliner.
4924

Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

The comparative actions of urea and thioglycolate on the representative toxin of Bacillus thuringiensis.
4933

TOXOCARA CATI
Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

TOXOPLASMA GONDII
Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

TOXOPLASMOSIS
Toxoplasma gondii: Fecal forms separated from eggs of the nematode Toxocara cati.
4811

Toxoplasma gondii: Transmission through feces in absence of Toxocara cati eggs.
4841

Therapeutic effect of SDDS (2-sulfamoyl-4,4'-diaminodiphenyl sulfone) on experimental toxoplasmosis.
4843

TRACHEA
Study of the tracheal units and nodular tracheal cells in Tipula flavolineata Meig..
4580

TRACTORS
For a better and more profitable technique in the application of soil fumigants.
4946

TRANSFORMATIONS (MATHEMATICAL)
A criterion of transformation for age-weight data on insect larval growth.
4481

TRANSPORTATION
Sodium tri-polyphosphate carried by tanker.
4950

TRAPS
Choice of resting site by Noctuidae (Lepidoptera).
4352

TREE DISEASES
The important forest pests of Spain.
4660

Red rot in residual ponderosa pine stands on the Navajo Indian Reservation.
4663

Diagnoses of pear decline and rootstock identification in young pear orchards.
4687

TREE INCREMENT MEASUREMENT
Fertilization of semi-mature stands in Newfoundland.
4652

TREES
Drench your trees against San Jose scale.
4738

Trials with carbon dioxide, light and growth substances on forest tree plants.
4909

TREHALOSE
An action of insect hormones on carbohydrate metabolism in insects.
4531

TRIAZINE
Chemical weed control and defoliation in potato fields. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4775

TRIBOLIUM CASTANEUM
Susceptibility of irradiated insects to Bacillus thuringiensis infection.
4519

Response of some stored-product insects to Trogoderma granarium pheromones.
4625

TRIBOLIUM CONFUSUM
Susceptibility of irradiated insects to Bacillus thuringiensis infection.
4519

The incidence and burden of Hymenolepis diminuta cysticerloids as a function of the age of the intermediate host, Tribolium confusum.
4524

Mobility in Tribolium confusum.
4565

TRICALCIUM ARSENATE
Finesse in weed control.
4778

TRICARBOXYLIC ACID CYCLE
Diurnal variation in some Krebs cycle enzymes in cactus (Nopalea dejecta) phylloclades.
4910

Tricarboxylic acid cycle activity in a pseudomonad.
4922

Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

TRICHINELLA SPIRALIS
General method for the culture of helminths in anaerobic conditions.
4854

TRICHINOSIS
Thiabendazole as a broad-spectrum anthelmintic. (abstract).
4853

TRICHIOCAMPUS IRREGULARIS
Trans-ovum transmission of insect viruses as a biological control.
4600

TRICHIOCAMPUS VIMINALIS
Trans-ovum transmission of insect viruses as a biological control.
4600

TRICHLORFON
The biology and control of Archips occidentalis (Wals.) and Tortrix dinota Meyr. (Lepidoptera: Tortricidae) on coffee in Kenya.
4744

TRICHLOROACETIC ACID
Weeds and their control.
4782

TRICHOGRAMMA CACOECIAE
Experiment on the influence of Bacilluscereus var. Galleriae and of lindane on Sitotroga cerealella Oliv. and on Trichogramma cacoeciae March.
4591

TRICHOPTERA
A new species of Ecnomus McLachlan (Trichoptera: Psychomyidae) from South Africa.
4430

TRICHURIS
Evaluation of the anthelmintic activity of thiabendazole in man. (abstract).
4860

TRIPHENYLTIN HYDROXIDE
New fungicide for potato blight.
4684

TRITIUM
Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

TRIZONE
Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

TROGODERMA GRANARIUM
Response of some stored-product insects to Trogoderma granarium pheromones.
4625

TROPICS
Bacteriostatic properties of milk from tropical countries.
4868

TROUT
Pesticides in hatchery trout---differences between species and residues levels occuring in commercial fish food.
4874

DDT: Sublethal effects on brook trout nervous system.
4892

Effects of chronic exposure to zinc on toxicity of a mixture of detergent and zinc.
4894

Some pathological effects of sub-acute and acute poisoning of rainbow trout by phenol in hard water.
4898

TRYPANOSOMA LEWISI
The effects of pantothenic acid, pantoyltaurine, salicylate and related compounds on the in vitro and in vivo growth of Trypanosoma lewisi.
4839

TRYPANOSOMATIDAE
Crithidia mellificae n. sp. an acidophilic trypanosomatid of the honey bee Apis mellifera.
4539

TUBERCULOSIS
Control of bovine tuberculosis and list of officially certified herds.
4846

TURF
Fairway disease control.
4674

TURKEYS
The Amprolium-Ethopabate combination. A new stage in the prevention of avian coccidiosis.
4720

TURNIPS
The action of formamide on turnip yellow mosaic virus: Obtaining artificial capsids.
4686

The action of urea on turnip yellow mosaic virus. The properties of RNA obtained at the time of artificial capsid formation.
4701

First evidences of viral infections in plants.
4704

TYPHLOCYBA CRUENTA
Coenosia lineatipes Zett. (Dipt., Muscidae) preying on Typhlocyba cruenta H. S. (Hem., Cicadellidae).
4448

TYROSINE
Composition of the gut contents of third-instar tsetse larvae (Glossina morsitans Westwood).
4478

ULTRASTRUCTURE
Ultrastructural peculiarities of the myofibrils in the flight muscles of Lepidoptera.
4452

The existence of inclusions which have a lamella ultrastructure in the nucleus of certain bacteriocytes in the adipose tissue of Periplaneta americana (Insecta, Blattidae).
4498

Ultrastructure of the hemocytes of Locusta migratoria (Orthoptera).
4512

Observations on the ultrastructure of the parasympathetic organs of the phasmids.
4585

Ultrastructure of homogeneous bodies and cellular bodies during the course of rickettsial infections.
4813

ULTRAVIOLET RAYS
Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

UPLAND COTTON
Bacterial blight elmiminated from California gins.
4724

Attack on moco cotton by pink bollworm in Ceara.
4756

UREA
The action of urea on turnip yellow mosaic virus. The properties of RNA obtained at the time of artificial capsid formation.
4701

Bronzing disease of rice in Orissa as influenced by soil types and manuring and its control.
4722

The comparative actions of urea and thioglycolate on the representative toxin of Bacillus thuringiensis.
4933

UREDIOSPORES
Infection structures from rust urediospores: Effect of RNA and protein synthesis inhibitors.
4907

URINE
Structure of Klein's metabolites of aldrin and of dieldrin.
4926

UROMYCES PHASEOLI
Rust infection protects beans against heat injury.
4732

VACCINES
The epizootiological importance of foot-and-mouth disease carriers. II. The carrier status of cattle exposed to foot-and-mouth disease following vaccination with an oil adjuvant inactivated virus vaccine.
4827

Protection against Rinderpest conferred to cattle by an inactivated virus adapted to cattle cells.
4835

VACCINIA VIRUS
The role of interferon in the interference phenomenon between vaccinia virus and fixed rabies virus.
4847

VALINE
Intestinal transport and metabolism of D-amino acids in the silkworm, Bombyx mori L.
4599

VARIANCE ANALYSIS
Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

VEGETABLES
Industrial tests of the biological preparation Entobacterin-3 in the USSR.
4489

Practical application of Bacillus thuringiensis.
4612

Blackberry control near orchards and vegetable gardens.
4770

Biological control of snails exerted by Euglandina rosea (Ferussac) in Bermuda.
4786

VEIN BANDING
The viruses of the black and red currant.
4705

VENTURIA CANESCENS
Information on a natural bacterial epizootic disease on Ephestia kuhniella Zeller, caused by a bacillus of the type of Bacillus thuringiensis.
4537

VENTURIA INAEQUALIS
Black spot of apple.
4700

VEROMESSOR
Benzaldehyde: Defensive secretion of a harvester ant.
4460

VERTICILLIUM ALBO-ATRUM
New fungicide promises effective and economical plant disease control.
4682

VESICULAR STOMATITIS VIRUS
Evidence of a variant of the vesicular stomatitis virus (Indiana strain) which confers a retarded sensitivity to carbonic gas in Drosophila melanogaster.
4584

Fluorescent antibody techniques for vesicular stomatitis virus.
4799

VESPIDAE
Some effects of castration on the protocerebral neurosecretion of the females of Polistes (Hymenoptera, Vespidae).
4601

VETERINARY MEDICINE
Care and use of veterinary biologics.
4921

VIBRIO COMMA
The biochemistry of Vibrio cholerae: Part IV. Acid soluble nucleotide constituents.
4927

Effect of ultraviolet radiation on the oxidation of certain Krebs cycle substrates in Vibrio cholerae.
4930

VIROLOGY
Aspects of virus multiplication and average reduplication time for a granulosis virus of Zeiraphera diniana (Guenee).
4456

Virus multiplication.
4614

Fluorescent antibody techniques for vesicular stomatitis virus.
4799

Studies of serum enzymes in swine infected by two strains of hog cholera virus.
4804

VIRULENCE
Salmonella abony-Salmonella typhimurium recombinant nonvirulent for the mouse.
4822

VIRUS DISEASES (ANIMALS)
The reappearance of rabies in France. First case in a fox in Moselle.
4793

Study of the multiplication, in a unique clone cycle, of classic swine fever virus in an immunofluorescent medium.
4794

Respiratory disease in the pig. II.
4798

Fluorescent antibody techniques for vesicular stomatitis virus.
4799

Studies of serum enzymes in swine infected by two strains of hog eholera virus.
4804

Research on the oncogenic constituents of three zones of hemagglutinating activity, obtained by centrifugation of polyoma virus purified in density gradients with eesium chloride.
4806

Quantitative studies on the neutralization reaction between Afriean horse-sickness virus and antiserum.
4817

Theory of classification of the densonucleose viruses , based on the study of molecular structures and physioehemieal properties.
4823

Characterization of a small porcine DNA virus.
4826

The epizootiological importance of foot-and-mouth disease carriers. II. The carrier status of cattle exposed to foot-and-mouth disease following vaecination with an oil adjuvant inactivated virus vaccine.
4827

Competitive development of enzymatie aetivity of transcriptase and replicase in the course of a viral disease in cattle.
4837

VIRUS DISEASES (INSECTS)
Study of the multiplication of Sindbis arbovirus in Drosophila.
4509

On the presence of a virus in the testicle of a homopteran inseet.
4555

Evidence of a variant of the vesicular stomatitis virus (Indiana strain) which confers a retarded sensitivity to carbonic gas in Drosophila melanogaster.
4584

VIRUS DISEASES (PLANTS)
Effect of high temperatures on the resistance of insects to infeetious diseases.
4607

Plant proteetion in agriculture.
4670

Basis for a program of papaya, Carica papaya L., improvment in Colombia.
4676

The action of formamide on turnip yellow mosaic virus: Obtaining artificial capsids.
4686

Inter-species and inter-genera crosses in Caricaceas and their phytotechnical implications.
4696

The aetion of urea on turnip yellow mosaic virus. The properties of RNA obtained at the time of artificial capsid formation.
4701

Form and mechanism of transmission of plant viruses. Transmission of viruses by seeds, pollen and contaet of roots.
4702

First evidenees of viral infections in plants.
4704

The viruses of the black and red currant.
4705

Polysome formation with tobacco mosaic virus RNA.
4708

Studies on the applieation of electrophoresis to the isolation of RNA infective fractions from tobacco plants infeeted with the potato virus X. I. Characterisation of RNA preparations from tobaeeo leaves, analysed by means of electrophoresis in coloured agar gels.
4710

The inheritanee of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

Chemical control of some important cereal plant diseases in India.
4727

Form and mechanism of transmission of plant viruses. Transmission of viruses by arthropods.
4728

Form and mechanism of transmission of plant viruses. Transmission of viruses by nematodes.
4729

Several measures used to combat fruit plant viruses.
4731

Inoculation of Carica papaya L. with the ringspot distortion virus under various eonditions.
4733

Studies on the population of the aphid Pentalonia nigronervosa Coq. on banana plants in Kerala.
4752

Germination of Russian thistle seeds.
4916

VIRUS NEUTRALIZATION
Quantitative studies on the neutralization reaction between African horse-sickness virus and antiserum.
4817

Protection against Rinderpest conferred to cattle by an inactivated virus adapted to cattle cells.
4835

VIRUS SEROLOGY
Quantitative studies on the neutralization reaetion between African horse-sickness virus and antiserum.
4817

VIRUS X
Studies on the application of electrophoresis to the isolation of RNA infective fraetions from tobacco plants infeeted with the potato virus X. I. Charaeterisation of RNA preparations from tobaeco leaves, analysed by means of electrophoresis in coloured agar gels.
4710

VIRUS Y
The inheritance of a new source of resistance to the potato virus Y in pepper (Capsicum annuum L.).
4713

VIRUSES
Study of the multiplication of Sindbis arbovirus in Drosophila.
4509

A preliminary study on the polyhedrosis virus of jute semilooper, Anomis sabulifera Guen.
4516

Virus multiplication.
4614

Effect of some disinfectants on the flacherie virus of the silkworm, Bombyx mori L.
4617

Study of the multiplieation, in a unique clone cycle, of classie swine fever virus in an immunofluorescent medium.
4794

Preliminary study of an intestinal virus isolated from a lesion in baland-posthite cattle.
4810

Inhibition of the multiplication of foot-and-mouth virus in an adult mouse which had first been treated with the adjuvant of Freude .
4814

VISCERA
Incorporation of tritium-acetamide and tritium-thymidine into the eye disks of Drosophila melanogaster.
4639

VISION
Single unit aetivity in the visual pathway of the butterfly Heliconius erato.
4605

VITAMIN E
On the antioxidative mechanism of alpha-, beta-, gamma- and delta tocopherols in lard.
4865

VITAMINS
Nutritional requirements and artifical diets for the silkworm, Bombyx mori L.
4518

Feeding and nutrition of Lygus hesperus. III. Limited growth and development on a meridic diet.
4602

The nourishment of milk calves is essential for the future of the product.
4787

WALSHIIDAE
A revision of the Cosmopterigidae of American north of Mexico, with a definition of the Momphidae and Walshiidae (Lepidoptera: Gelechioidea).
4395

WATER ANALYSIS
Pesticides in water. Pesticides in selected western streams--A eontribution to the national program.
4870

Persistence and movement of parathion in irrigation waters.
4871

Investigation of effects of large-scale applications of 2,4-D on aquatic fauna and water quality.
4888

Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

Water pollution laws called ambiguous weak .
4961

WATER CONSUMPTIVE USE
Irrigation by spraying.
4659

WATER POLLUTION
The warble fly.
4568

Pesticides in water, Pesticides in seleeted western streams--A contribution to the national program.
4870

Persistenee and movement of parathion in irrigation waters.
4871

Effects of chronic exposure to zinc on toxieity of a mixture of detergent and zinc.
4894

Some pathological effeets of sub-acute and aeute poisoning of rainbow trout by phenol in hard water.
4898

Water pollution laws called ambiguous weak .
4961

WATER TREATMENT
Investigation of effects of large-seale applications of 2,4-D on aquatic fauna and water quality.
4888

WEATHER
The entomological year 1966.
4351

Seasonal ehanges in the direction of mating in Drosophila melanogaster in the experiments with a natural inversion.
4636

WEED CONTROL
Fairway disease control.
4674

Thrips infesting the tips of asparagus spears.
4740

Some observations on ecological, physiologieal and bioehemical aspeets of weed control.
4776

Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

Finesse in weed control.
4778

Weed control studies in strawberries.
4779

Weed control in potato cultures without adverse effects on the potato quality.
4781

Weeds and their control.
4782

WEEDS
Bibliography of biological control. VIII.
4661

Experimental husbandry farm experience with herbicides and tillage systems for cereal growing.
4678

Comparison of various methods for the determination of the herbicidal action of herbicide preparations against annual weeds in sugarbeets and potatoes. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
4774

Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards.
4780

Our struggle against pests. II.
4872

Germination of Russian thistle seeds.
4916

The determination of the embryo viability of weed seeds by the TTC method.
4917

WEIGHTS
A criterion of transformation for age-weight data on insect larval growth.
4481

WESMAELIUS
A new Wesmaelius from central Asia (Neuroptera, Hemerobiidae).
4434

WHEAT
Role of potash application in reducing black rust of wheat.
4680

The effect of 3-amino-1,2,4-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
4685

Wheat.
4691

Polysome formation with tobacco mosaic virus RNA.
4708

Black stem- the second stem disease of grains.
4734

Response of mixed crop of wheat and rape to three chlorophenoxy herbicides.
4777

Bulk wheat pests can be controlled by simple precautions.
4866

WILDLIFE
Residues in fish, wildlife, and estuaries. Chlorinated pesticide levels in the Eastern oyster (Crassostrea virginica) from selected areas of the South Atlantic and Gulf of Mexico.
4875

Residues in fish, wildlife, and estuaries. Insecticide concentrations in wildlife at Presidio, Texas.
4876

An evaluation of the effects of the Aedes aegypti eradication program on wildlife in South Florida.
4884

Use insecticides safely.
4901

WILT
Physiological studies on incitants of guava wilt Fusarium solani (Mart.) App. and Wr. emend Snyder and Hansen and Macrophomina phaseoli (Maubl.) Ashby.
4688

Methyl bromide, Trizone and Telone PBC compared in the control of fusarium wilt of the greenhouse tomato.
4716

Fusarium foot rot of kenaf (Hibiscus lannabinus L.) in Iran.
4723

WINGS (INSECTS)
Some biometrics in Pieris and Colias (Lepidoptera: Pieridae) in Quebec and Nova Scotia.
4502

The role of the exuvial fluid swallowed before emergence, in the expansion of the wings of Bombyx mori L..
4572

Prothetely in Carabidae of the genus Pterostichus.
4577

Barriers to gene flow in natural populations of grasshoppers. I. The Black Canyon of the Gunnison River and Arphia conspersa.
4650

WOOD BORERS
Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

WOOD DECAY
Preservative treatments and service life of fence posts in Puerto Rico.
4658

WOOD PROPERTIES
Preservative treatments and service life of fence posts in Puerto Rico.
4658

WOOD-DESTROYING INSECTS
Wood-and-bark-feeding Coleoptera of felled spruce in interior British Columbia.
4425

Protecting larch logs from Tetropium velutinum Leconte with lindane emulsion.
4754

WOODPECKERS
Are woodpeckers the answer to pine bark beetle attacks .
4450

X-RAYS
Susceptibility of irradiated insects to Bacillus thuringiensis infection.
4519

XANTHOMONAS
Host range of Xanthomonas oryzae in the Philippines.
4689

XANTHOMONAS MALVACEARUM
Bacterial blight elmiminated from California gins.
4724

XANTHOMONAS VESICATORIA
Bacterial leaf spot of chillies in Kerala State.
4719

XENOPSYLLA CHEOPSIS
Experimental transmission of plague by Synopsyllus fonquerniei of Madagascar.
4800

YAMS
Cultivation of the sapogenin-bearing Dioscorea species.
4664

YELLOW DWARF
Pessimism over crop diseases.
4679

YELLOWS
The viruses of the black and red currant.
4705

ZANCLOGNATHA TENUIALIS
Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae).
4376

ZEARALENONE
Screening method for zearalenone, aflatoxin, and ochratoxin.
4928

ZEIRAPHERA DINIANA
Aspects of virus multiplication and average reduplication time for a granulosis virus of Zeiraphera diniana (Guenee).
4456

ZINC
Effects of chronic exposure to zinc on toxicity of a mixture of detergent and zinc.
4894

ZOOGEOGRAPHY
Study of the genus Rhytidodus Fieb. (Homoptera, auchenorrhyncha) with description of two new species from the Soviet Union.
4357

A record of Megachile rotundata (F.) from Ashcroft. British Columbia.
4358

Listing of Trifid noctuidae of France and Belgium.
4361

Valley centipedes (Chilopoda, Symphyla) from northern Kentucky.
4362

Taxonomic notes on the larva of British Diptera. no. 25, The larva and pupa of Dioctria rufipes (Degeer) (Asilidae).
4363

First records of eye-frequenting moths from Ceylon.
4365

On a collection of termites from Daman.
4369

The discovery in France of the Acarina Nematalycidae Strenzke while organizing the material from Languedoc-Rousillon.
4372

Coleoptera of northeast Africa. Brentidae.
4373

Zanclognatha tenuialis Rebel in France (in Alsace and L'Isere). (Lep. Noctuidae, Hypeninae).
4376

Panthea coenobita Esp. in the French Jura. (Lepidoptera Noctuidae Pantheinae).
4377

Coleoptera from northeast Africa. Mordellidae. Supplement: Paraconalia n. gen. a new genus from South America. 64. Contribution to the knowledge of the Mordellids.
4380

New Malthodes from western North America (Coleoptera: Cantharidae).
4382

Contribution to the knowledge of the hosts of the genus Opius (Hymenoptera, Braconidae).
4385

Lepidoptera of southern Spain.
4389

New genera and species of chalcid flies (Hym., Chalcidoidea) and a new species of Foenatopus Smith (Hym., Ichneumonidae, Stephanidae) from Hoggar.
4391

A revision of the Cosmopterigidae of American north of Mexico, with a definition of the Momphidae and Walshiidae (Lepidoptera: Gelechioidea).
4395

Records of Ohio fleas (Siphonaptera).
4397

New species of Meubelia Willemse, 1932, from the Philippines (Orthoptera: Pyrgomorphidae).
4400

A new genus and species of Sciomyzidae from Tanzania, with a key to the genera of the Ethiopian region and distributional notes (Diptera: Facalyptratae).
4401

Tabanidae (Diptera) of the Netherlands.
4403

Systematics of the Cryptocephalinae (Coleoptera, Chrysomelidae) from Soviet Central Asia and Kazakhstan.
4408

Contribution to the systematics and zoogeography of Halticinae (Col.) in the Canary Islands.
4410

A review of darkling beetles of the tribe Leptodini (Coleoptera, Tenebrionidae).
4411

Ichneumonidae (Hymenoptera) collected in paddy fields of the Orient, with descriptions of new species. Part 2. Subfamilies Porizontinae, Metopiinae and Diplazontinae.
4412

New Palearctic species of the genus Cyphon Payk. IV. Studies on the Helodidae family. IX.
4416

A revision of the subgenus Hirtodrosophila of the Old World, with descriptions of some new species and subspecies (Diptera, Drosophilidae, Drosophila).
4418

Aphids from the subtribe Schizolachnina (Aphidoidea, Lachninae) in Middle Europe.
4420

Concerning the taxonomic clarification of Narraga tessularia ilia Whli and some remarks about this genus. (Lepidoptera, geometridae).
4421

The first discovery of free-living larvae of the car tick, Otobius megnini (Duges), in British Columbia.
4424

On nocturnal darkling beetles of the genus Melanesthes Lac. (Scoleoptera, Tenebrionidae) from central Kazakhstan.
4431

Abundance and microdistribution of larval Chironomidae in stabilization lagoons.
4432

Identification of the braconid parasites of rice borers (Hymenoptera: Braconidae).
4440

First occurrence of balsam woolly aphid in the interior of British Columbia.
4441

Studies on the Japanese gall midges II, two new and a known species of the genus Camptomyia from Kyushu (Diptera: Cecidomyiidae).
4443

New species of Hypera (Coleoptera, Curculionidae) from the Crimean Mountains.
4444

New species of the genus Trachina Mg. (diptera, Tachnidae), parasites of injurious Lepidoptera in the Ussr.
4445

The introduction, release, and recovery of parasites of the alfalfa weevil in Eastern United States.
4466

Biology, ecology and distribution of Amara pseudocommunis Burak. (Coleoptera, Carabidae).
4467

Aradidae in the Bishop Museum, Honolulu (HemipteraHeteroptera).
4533

Ecological and morphological study of robber flies of the tribe Asilini (Diptera, Asilidae) with descriptions of new genera and species from Kazakhstan and Soviet Central Asia.
4548

Biology of the ant Formica sanguinea Latr. (Hymenoptera, Formicidae) in the Tien Shan.
4559

Intraspecific qualitative and quantitative variations of the hemolymph proteins of Cophopodisma pyrenae (Fisch.), (Orthoptera, Catantopidae) as a function of biogeographic area.
4562

The Plecoptera of a headwater stream (Gaitscale Gill, English Lake District).
4569

Observations on the morpho-biology of Pnigalio mediterraneus Ferr. and Del. (Hym. Eulophidae).
4615

Parallel polymorphism for supernumerary segments in Chorthippus parallelus (Zetterstedt). I. British populations.
4638

Preliminary observations on the choice of host plants by adults of the citrus psylla, Trioza erypreae (Del Guercio) (Homoptera: Psyllidae).
4749

The cicadelle Empoasca flavescens and the grill of grapevines in the South-West of France.
4761

ZOOSPORES

Zoospore in Phytophthora parasitica var. subdariffae.
4666

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4735

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Agarwala, S C 4930
Agrawal, S C 4680
Ahmad, C R 4505
Aizawa, K 4617
Akesson, N B 4944
Akhavizadegan, J 4723
Akram, M 4858
Al-Allaf, G 4860
Alghisi, P 4681
Alikhan, M A 4447
Allen, A A 4354, 4448, 4449
Allen, P J 4907
Allred, D M 4355, 4356
Amor, R 4770
Anderson, J M 4892
Anderson, P K 4504
Anderson, R J 4764
Andrade, O 4744
Andrews, S R 4663
Angle, C R 4901
Anonymous, 4348, 4450, 4682, 4683, 4684, 4738, 4739, 4765, 4872, 4943, 4949, 4950, 4951, 4960, 4961, 4962
Anonymus, 4952
Anufriev, G A 4357
Aoki, H 4673
Appert, A 4720
Applegate, H G 4876
Arai, N 4451, 4517
Arcos-Teran, L 4627
Aronoff, S 4912
Arrand, J C 4358
Ashlock, P D 4359
Askew, R R 4360
Asshauer, E 4853
Atanasiu, P 4793, 4806
Auber, J 4452, 4453
Auclair, J E 4868
Avidov, Z 4454
Awaness, A M 4860
Aynaud, J M 4794, 4814

Bachhawat, B K 4788
Bachmann, P A 4826
Bagda, H 4903
Balasubramanian, A S 4788
Ballinger, A 4963
Banham, F L 4740
Barbier, R 4455
Barendse, G W M 4904
Barnard, C O 4873
Barry, D 4874
Bartels, P C 4685
Bartos, S 4795
Baseman, J B 4796, 4797
Bassler, R 4771
Basu, S K 4922
Batch, D L 4362
Baumgarner, P 4874
Bayer, D 4780
Bazin, J C 4854
Beckwith, A C 4938
Bedford, E C G 4741
Beermann, W 4627
Behrendt, S 4772
Beirne, B P 4742
Benz, G 4456
Benza, J C 4653
Berendes, H D 4628
Bergerard, J 4457
Berkaloff, A 4810
Bernard, C 4810
Berndorfer-Kraszner, 4865
Berryman, M H 4898
Berton, A 4475
Besemer, S T 4905
Bhat, J V 4599
Bhattacharyya, S K 4688
Biache, G 4468
Bird, F T 4458
Bisdee, H E 4350
Biswas, B B 4925
Bitsch, J 4459
Blandford, T B 4798
Blease, J A 4878
Blum, M S 4460
Bonath, K 4836
Bongiovanni, G C 4766
Bonnefoi, A 4485
Bonnemaison, L 4461
Boone, R S 4658
Borle, M N 4893
Borredon, C 4835
Bostwick, D C 4923
Boswell, T O 4884
Boudreaux, H B 4462
Boudsin, Ch 4361
Bouley, J P 4686
Bounhiol, J J 4572
Bourgogne, J 4349
Bournier, A 4463
Bovey, P 4622
Boyce, A R 4557
Boyd, J B 4629
Bradford, A 4874
Brandazza, R 4655
Branson, B A 4362
Breeland, S G 4504
Breugel, F M A van 4435
Brindle, A 4363
Brousse-Gaury, P 4464
Brown, C L 4799
Brown, E 4870
Brown, V M 4894, 4898
Bruce, N 4364
Bruce, V G 4465
Brunson, M H 4466
Brygoo, E R 4800
Buchelos, C 4463
Buchwalder, R 4855
Budde, P B 4902
Buffet, M 4654
Bugg Jr., J C 4875
Bugiani, A 4655
Burakowski, B 4467
Burgerjon, A 4468, 4924
Burges, H D 4864
Burgoyne, W E 4944
Burke, J A 4937
Bursell, E 4478
Buschmann, L 4780
Busselet, M 4469
Buttiker, W 4365
Buys, C 4656

Calvo, J M 4801
Cama, H R 4838
Campbell, C H 4802
Campbell, R L 4743
Cantacuzene, A M 4470
Capener, A L 4366, 4367, 4368
Carlson, W 4964
Carrasco, V B 4653
Cassagnau, P 4630
Cassidy, D R 4803, 4804
Cassier, P 4471, 4472
Catlin,p B 4687
Cave, D 4642
Cavin, G E 4886
Cazal, M 4473, 4474
Censi, G 4945
Centile, A C 4760
Chakrabarty, A M 4922
Chakraborty, T K 4776
Chakravorty, A K 4925
Chan, H 4805
Chandhokar, P A 4776
Chararas, C 4475, 4476
Chari, M S 4477
Charton, A 4810
Chatterjee, P N 4369
Chattopadhyay, S 4915
Chattopadhyay, S B 4657, 4688
Chen, J T 4926
Choay, J 4837
Christudas, S P 4752
Chudnoff, M 4658
Cmelik, S H W 4478
Coates, T J 4370, 4371
Coineau, Y 4372
Cole, H 4874
Coles, L W 4466
Collins, J A 4698
Copeland, F 4884
Corbiere, G 4479
Corner, J 4358
Costa, M V da 4480
Costantino, R F 4481
Costello, C E 4926
Cote, J R 4823
Courtois, J E 4482
Cox, C D 4796, 4797
Cramer, R 4806
Creemers, J 4813
Crouse, H V 4631
Crouzel, I S 4483
Csejtey, J 4808
Culley, D D 4876
Curley, A 4460
Cushmac, M E 4938

D'Arces, J 4789
D'At de Saint-Foulic 4659
Dalmacio, S C 4689
Damico, J N 4926
Damoiseau, R 4373, 4374
Dasgupta, M K 4657
Dauterman, W C 4511
Davis, E J 4895
Davis, W J 4808
Dawsey, L H 4886
Day, J W 4896
Day, M F 4484
De Barjac, H 4485
De Gaalon, A 4857
de Proce, J M 4787
De-The, G 4812
Delamare-Debouttevil 4372
Della Pieta, S 4655
Demerseman, P 4806
Dennhofer, L 4632
Deshmukh, K 4927
Dhennin, L 4837
Di Mattei, P 4877
Diaz, M O 4633
Dimond, J B 4878
Dodin, A 4800
Domanska, H 4773
Dostal, H C 4906
Douault, P 4486
Downing, R S 4553
Drebble, M L 4375
Drees, H 4897
Duben, Z 4807
Dubey, J P 4811
Dufay, C 4487
Dufay, Cl 4376
Dufay, Cl. 4377
Duggan, R E 4879, 4880
Dunkle, L D 4907
Dusanic, D G 4839
Dutt, D N 4757
Dutton, J V 4913
Dyte, C E 4378

Eckes, P 4820
Eichhorn, O 4660
Eichler, W 4790
Einstein, E R 4808
El-Bahay, G M 4820
El-Tahtaoui, M M 4488
Elmore, C 4780
Eppley, R M 4928
Erlandsson, S 4379
Ermisch, K 4380
Euzeby, J 4809
Evans, D E 4744
Evgenev, M B 4636
Exconde, O R 4689

Faber, F L 4954
Fassatiova, O 4690
Faye, P 4810
Fedorintchik, N S 4489
Fedoseyeva, L I 4381
Feeley, J 4708
Fender, K M 4382
Ferguson, D L 4856
Ferreira, A 4643
Feyerabend, G 4774
Fiddian, W E H 4691
Field, G 4383
Fischer, B 4780
Fischer, M 4384, 4385
Fize, A 4372
Foglietti, M J 4482
Folliot, R 4555, 4556
Fordyce, D M 4698
Foulk, J D 4490
Fourche, J 4491
Franz, J M 4661
Frear, D E H 4874, 4929
Freeman, G H 4698
French, R A 4866
Frenkel, J K 4811
Fresa, R 4483
Freundlich, M 4801
Fristrom, D 4634
Frolich, E F 4916
Fukuda, T 4492, 4493
Funada, T 4617

Gamet, A 4793
Ganapathi, K 4927
Ganguli, N C 4791, 4831
Garcin, C 4809
Garibaldi, A 4692
Gaskins, M H 4664
Gaspar, T 4908
Gaumont, J 4494
Gaunitz, S 4386
Gautier, J Y 4495
Gazzolo, L 4812
Geistlinger, N J 4754
Geoffrion, R 4496
George, M K 4920
Gerson, U 4454
Getchell, A S 4878
Getsova, A B 4497
Geyer, A 4501
Gharagozlou, I 4513
Gharagozlou, I D 4498
Giandomenico, N 4769
Giess, M C 4581, 4582
Giliomee, J H 4387
Gimesi, A 4775
Giroud, P 4813
Giuffrida, L 4923
Glotoff, N V 4635
Gomez, I 4595, 4596
Gon, M 4890
Goncalves, J R 4693
Gopal, R 4776
Gorhe, D 4814
Gose, K 4955
Goto, M 4829
Gottlieb, D 4669
Gotwald, W H 4499
Goulding, R L 4432
Gouranton, J 4500
Gouthiere, J 4654
Goytia, E 4658
Grace, T D C 4484
Grandison, G S 4767
Granzien, C K 4815
Grassman, A 4501
Graviere, P 4793
Gray, P H H 4502
Gregson, J D 4424
Gressitt, J L 4388
Grierson, D 4913
Griffiths, E 4698
Grigorova, R 4503
Grogan, R G 4694
Grosjean, N 4809
Grossman, A I 4636
Guerrero, H C 4940
Gug, M 4720
Guilhon, J 4857
Guillon, J C 4793
Gupta, K P 4680
Gupta, O P 4777
Gupta, S K 4791

Guthrie, F E 4623
Hackman, W 4389
Hadorn, E 4637
Haenni, E O 4926
Hall, T F 4504
Hamann, W 4774
Haque, H 4505
Harbo, J R 4745
Harden, F J 4816
Hardh, J E 4909
Harman, D M 4506
Harris, C C 4507
Harz, K 4390
Hasegawa, K 4508
Hawk, R E 4460
Hayatee, Z G 4860
Hazrati, A 4817
Heaney, R K 4913
Hedqvist, K J 4391
Heinrich, G H 4392
Herbulot, C 4393
Herda, G 4501
Herreng, F 4509
Herter, K 4510
Hewitt, G M 4638
4640
Heyrovsky, L 4394
Higgins, J E 4875
Higuchi, Y 4492
Hirose, Y 4639
Hirth, L 4686
4701, 4704
Hodges, R W 4395
Hodgson, C J 4396
Hodgson, E 4511
Hoffee, P A 4818
Hoffmann, J A 4512
Hollande, A 4513
Horakova, V 4795
Horne, W 4695
Horovitz, S 4696
Hosmani, M M 4776
Howard, S F 4942
Howe, E C 4856
Howell, G S 4514
Hughes, I W 4786
Humphrey, W A 4779
Humphreys, J G 4397
Hunnius, W 4697
Hurpin, B 4515
Hurtig, H 4956
Hussain, M Z 4842
4858
Huxley, P A 4698
Inami, Y 4843
Ingraham, J 4844
Inokuchi, T 4517
Ishaque, M 4516
Isom, B C 4888
Iswaran, V 4662
Itaya, N 4935
Ito, T 4451
4517, 4518
Jadin, J 4813
Jadin, J M 4813
Jafri, R H 4519
Jaillet, I 4543
Jalil, M 4520
Janson, B F 4699
Jarolmen, H 4819
Jaworska, H 4642
Jayarathnam, K 4521
Jenkins, P T 4700
Jenney, E W 4799
Jimenez, H 4696
John, B 4638
4640
Johnson, C 4398
4399
Johnson, D L 4619
Joly, P 4512
4522
Jonard, G 4701
Jones, J C 4536
Joseph, K V 4616
Judd, W W 4651
Kabir, A K M F 4516
Kadunce, R E 4878
Kafatos, F C 4523
Kaji, S 4639
Kalich, J 4820
Kapoor, N K 4930
Karthigasu, K 4822
Katz, F F 4524
Kawakami, T 4617
Keat, R 4931
Keep, E 4746
Kelly, R J 4524
Kemp, G 4819
Kernohan, E A 4821
Kerr, C F 4778
Kessler, D P 4844
Kevan, D K M 4641
Kevan, D K McE 4400
Keyl, H G 4631
Khan, A A 4910
Khan, M A Q 4511
Khare, B P 4759
Kidwai, A M 4792
Kimble, K A 4694
Kirk, J K 4881
4882
Kita, S 4617
Klement, Z 4525
Klimov, A N 4932
Knerer, G 4526
4527, 4528, 4529
Knight, H H 4530
Knight, R L 4746
Knutson, L V 4401
Kobayashi, M 4531
Koch, W 4917
Korach, S 4862
Korcz, A 4532
Kormileu, N A 4533
Koslinska, M 4534
Kot, J 4591
Kovats, I T 4865
Kovoor, J 4535
4574
Krafsur, E S 4536
Kraft, K J 4745
Kranzler, G A 4506
Krasilnikova, M M 4932
Krebill, R C 4711
Krishnanandam, Y 4588
Krishnapillai, V 4822
Kruitwagen, E 4602
Kubota, A 4617
Kuhne, F A 4768
Kunze, L 4702
Kurian, N J 4703
Kurkdjian, A 4707
Kurstak, E 4823
Kurstak, E S 4537
Kurtz-Fritsch, C 4704
Kury, C R 4883
Kusigemati, K 4412
Laan, P A van der 4867
Labeyrie, V 4587
Lacoppe, J 4908
Lambers, D H R 4402
Lamy, M 4538
Lancastre, F 4854
Landschutz, Chr 4824
Lange, A H 4779
Lange,a H 4780
Langridge, D F 4539
Lantin, B 4705
Lark, K G 4805
Lauge, G 4540
Laux, W 4661
Laverdure, A M 4541
4542, 4546
Laville, E 4706
Le Berre, J R 4543
4544
Le Goff, L 4911
Le Guilloux, M 4793
Le Layec, Cl 4810
Lebduska, J 4795
Lecadet, M-M 4933
Leclercq, M 4403
Lee, S 4912
Legner, E F 4545
Lehner, P N 4884
Lender, T 4546
Leonide, J 4547
Leopold, A C 4906
Ler, P A 4548
Leroy, Y 4404
Lesse, H de 4405
Lightle, P C 4663
Ligondes, J de 4549
Lim, H 4641
Lima-de-Faria, A 4642
Lindqvist, E 4406
Lindroth, C H 4407
Linn, J D 4885
Lopatin, I K 4408
Louis, C 4550
Lower, H F 4747
Luginbill, B 4708
Lyneborg, L 4409
Lysenko, O 4551
Macfadyen, A 4552
Mackauer, M J P 4350
Madar, J 4410
4410
Madsen, H F 4553
Maheshwari, R 4907
Mahnel, H 4826
Maillard, Y P 4554
Maillet, P L 4555
4556
Maisonhaute, C 4457
Mangalo, R 4862
Mani, V S 4776
4777
Manigault, P 4707
Manson, G F 4557
Marcus, A 4708
Maria, M de 4558
Marikovskiy, P I 4559
Martens, P 4891
Martin, F W 4664
Martouret, D 4560
Marty, R 4561
4562
Masny, M N 4677
Mason, R W 4825
Mathenge, W M 4744
Matsui, M 4935
Matsuo, T 4617
Mattingly, E 4563
Matuszewski, B 4564
Maurice, Y 4835
Maxwell, F G 4514
Mayr, A 4826
McDaniel, H A 4861
McDonald, D J 4565
McGhee, R B 4539
McLure, M T De 4595
McVicar, J W 4827
Medvedev, G S 4411
Mehendale, H M 4511
Meiffren, M 4709
Meldrum, K C 4828
Melton, M L 4841
Mesa, A 4643
Mesa, R S de 4643
Meyer, G F 4628
Michel, M F 4566
Miczulski, B 4567
Miczynski, K A 4710
Mielke, J L 4711
Millecan, A A 4687
Miller, C W 4871
Miller, N L 4811
Miller, R L 4743
Mills, P A 4934
Milne, D L 4768
Minis, D H 4465
Minshall, G W 4569
Mishra, A 4776
Mitrovic, V V 4894
4898
Miya, K 4570
Momoi, S 4412
Moniz, L 4703
Montegut, J 4712
Moore, N W 4899
Moore, R F 4571
Moran, V C 4749
Moreau, R 4572
Mori, K 4935
Morita, M 4829
Mortimer, P H 4830
Mosbacher, G C 4649
Moucha, J 4413
4421
Moudgal, N R 4838
Mound, L A 4414
Mukherjee, N 4666
Mukhopadhyay, S 4667
Munakata, K 4673
Munting, J 4387
4415
Muro, A 4750
Murti, C R K 4792
4936
Mussell, D R 4902
Nakamatsu, M 4829
Nakanishi, A 4412
Nakasone, H Y 4668
Narayanan, R 4831
Nasir, M M R 4936
Nelson, H A 4803
Newton, L G 4815
Nicolas, G 4669
Niculescu, E V 4573
Nilsson, B 4642
Nishioka, Y A 4870
Noirot-Timothee, C 4574
Noirot, C 4574
Nolte, H-W 4670
Nordau, C G 4575
Norgren, R L 4871
Nur, U 4644
Nyholm, T 4416
O'Brian, D M 4524
Obraztsov, N S 4417
Odenine, K 4859
Ogawa, T 4935
Ogle, S 4563
Ohki, M 4832
Okabe, K 4558
Okada, T 4418
Oldfield, J F T 4913
Onuma, A 4647
Orme, J P R 4645
Osborn, A W 4576
Ozawa, Y 4817
Ozeki, H 4832
Paarmann, W 4577
Padhi, G K 4757
Padmanabhan, M D 4735
Padovani, F 4460
Pahle, A 4713
Palm, T 4419
Papillon, M 4578
Paraf, A 4814
Parant, M 4833
Patel, H K 4477
Patino C, H 4714
Patzold, C 4781
Peggie, I D 4715
Pellegrino, J 4558
Percheron, F 4482
Perrotta, G 4716
Peterson, M R 4892
Picco, D 4914
Pierrard, G 4671
Pihan, J C 4579
4580
Pillai, P K 4920
Pintera, A 4420
Planel, H 4581
4582
Plateaux-Quenu, C 4526
4527, 4528
Pollack, J D 4834
Ponchet, J 4672
Poortmans, P 4656
Popov, A D 4717
Porte, A 4512
Porter, M L 4937
Portier, G 4544
Povolny, D 4421
Powell, J A 4583
Powers, H R 4711
Price, R D 4422
Printz, P 4584
Provost, A 4835
Puga, A 4642
Purkayastha, R P 4718
Puthz, V 4423
Raabe, M 4585
Rabb, R L 4586
Rad, C S 4751
Rahn, R 4587
Raj, H G M 4838
Ralijaona, D 4701
Ramade, F 4585
Ramamurty, P S 4588
Ramanathamenon, M 4752
Ramirez, M 4596
Ramnath, B 4915

Rangaswamy, S V 4782
Rao, D S 4782
Rao, S B P 4915
Rauch, H C 4808
Reinhard, F 4836
Remadevi, L 4719
Remirez, M 4595
Renou, Y 4720
Reshetnikov, V N 4677
Reuter, G 4869
Rhoads, W A 4916
Rich, G B 4424
Richards, A G 4589
Richards, P A 4589
Rieder, G 4917
Ringham, C K 4900
Rios Castano, D 4676
Robertson Jr., E A 4875
Robertson, B C 4818
Rodriguez, J B 4653
Rohfritsch, O 4753
Roselle, R E 4901
Rosen, D 4454
Ross, D A 4425 4754
Ross, N 4780
Rougeot, P 4351
Roux, J B 4654
Rudelle, M 4656
Russ, K 4755
Russell, F 4721
Rutzer, E 4851
Saez, F A 4633
Sagar, P 4930
Sahu, B N 4722
Sakimura, K 4426
Sakouhi-Cousin, M 4837
Salem, H H 4860
Salerno, M 4716
Saltet, P 4590
Sam, M J 4915
Samsinak, K 4427
Samuelson, G A 4428
Samy, T S A 4838
Sanchez, G 4839
Sandner, H 4591
Santos, J H R dos 4756
Sanwal, G G 4910
Sarlet, L G 4429
Sarma, P S 4812
Sassa, T 4673
Satpathy, J M 4757
Schaffner, J C 4530 4592
Schapitz, F 4957
Scharief, G 4723
Scheie, P O 4593
Schmialek, P 4501
Schnathorst, W C 4724
Schoeller-Raccaud, J 4594
Scobee, R E 4674
Scoguamiglio, A 4769
Scorza, J V 4595 4596
Scott, K M F 4430
Scullen, H A 4597
Seal, W L 4886
Seberg, S A 4804
Seffner, W 4840
Seiber, J N 4902
Senterfit, L B 4834
Sharpe, D N 4783
Sharplin, J 4352
Shaw, M N 4698
Sheffield, H G 4841
Sheffy, B E 4826
Sheikh, S A 4842
Shepherd, D R 4887
Sherman, K C 4861
Shimizu, K 4843
Shiozaki, M 4935
Shirahata, T 4843
Shubeck, P P 4598
Shulov, A 4625
Shurben, D G 4898
Shyamala, M B 4599
Siegl, G 4826
Simmonds, F J 4786
Singh, A P 4918
Singh, S N 4918
Singh, S P 4680
Sinitsyna, Ye Ye 4624
Skopin, N G 4431
Slack, E 4478
Smirnoff, W A 4600 4758
Smissman, E E 4645
Smith, E 4511
Smith, G E 4888
Snyatkov, A S 4677
Soleilhavoup, J P 4581 4582
Somerson, N L 4834
Sood, S K 4919
Sopranzi, N 4877
Spencer, D A 4889
Sprea, A 4946
Srivastava, V K 4759
Stanbridge, T A 4830
Stark, G T C 4894
Stilwell, E 4780
Stoekel, M E 4512
Stoloff, L 4938
Stoner, A K 4760
Strambi, A 4601
Stringer, D E 4954
Strong, F E 4602
Strubing, H 4603
Sturgess, B T 4432
Stusak, J M 4604
Subrahmanyam, D 4939
Sugden, B A 4433
Sumiki, Y 4935
Supperer, R 4851
Sutmoller, P 4827
Swihart, S L 4605
Taft, H M 4571
Tai, P C 4844
Tailliez, R 4862
Tamarina, N A 4606
Tanada, Y 4607
Tanaka, Y 4646
Tanguy, J 4709
Tazima, Y 4647
Teague, H J 4913
Teppner, H 4648
Terioshin, I M 4932
Thakur, M L 4369
Thanh-Xuan, N 4608
Thely, M 4837
Thibaud, J M 4609
Thien, L B 4675
Thurley, D C 4845
Thurston, R 4586
Tixador, R 4581 4582
Tjeder, B 4434
Tolkmith, M 4902
Tomlinson, W E 4871
Torres, R 4676
Touzeau, J 4761
Traut, W 4649
Tucker, A J P 4947
Turian, G 4610
Umbarger, H E 4801
Vallee, A 4793
Van Den Berg, E 4611
Van Heerden, A 4846
Vandercook, C E 4940
Vankova, J 4612
Vasiljevic, L 4613 4614
Vecher, A S 4677
Vecht, J van der 4435
Veinbrants, N 4726
Vickery, V R 4641
Vieuchange, J 4847
Viggiani, G 4615
Vigier, P 4812 4848
Vilasini, G 4920
Vine, B H 4698
Vir, D 4727
Visalakshi, A 4616
Volkova, G A 4497
Voss, C M 4958
Voth, V 4779
Wagner, E 4436 4437
Wagner, W 4438
Wallace, A 4916
Walters, A H 4941
Warlet, J M 4439
Wassermann, D 4890
Wassermann, M 4890
Wassink, H J M 4867
Watanabe, C 4440
Watanabe, M 4617
Webster, E J 4618
Weidemann, H L 4728
Weier, T E 4685
Weischer, B 4729
Wells, H D 4730
Wells, P H 4619
Welsh, M F 4731
Wenner, A M 4619
White, D A 4620
Whybrew, J E 4678
Wiegand, H 4621
Wiken, T 4622
Wilbur, M 4762
Wilkinson, P R 4849
Wille, H 4622
Willey, R B 4650
Willey, R L 4650
William, A 4891
Wilson, K I 4719
Wistar, R 4850
Wold, J L 4597
Wood, B J 4763
Wood, R O 4441
Woodroffe, G E 4442
Wright, 4863
Yamashita, O 4508
Yang, R S H 4623
Yarwood, C E 4732
Yelizarov, Yu A 4624
Yinon, U 4625
Yip, G 4942
Yoshitake, N 4626
Yukawa, J 4443
Zahradnik, J 4413
Zakopal, J 4784
Zalta, J P 4561 4562
Zaslavskiy, V A 4444
Zellermayer, L 4890
Zemanek, J 4785
Zerpa, D M 4733
Zimin, L S 4445
Zolotarev, Ye Kh 4624
Zumpt, F 4852
Zur Strassen, R 4446
Zwatz, B 4734

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4432, 4623, 4808, 4811
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